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VICINITY MAP

*FOR PLANNING STAFF ONLY
INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: _____

PROVIDED BY OWNER:

CARPINTERIA PROTOTYPE ACCESSORY DWELLING UNIT - PLAN 1

STREET ADDRESS (TO BE PROVIDED BY OWNER)
CITY OF CARPINTERIA, CA

SHEET INDEX

*FOR PLANNING STAFF ONLY
INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: _____

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Grand total: 33	

SUPPORTING DOCUMENTS

STRUCTURAL CALCULATIONS	PREPARED BY: _____	RRM DESIGN GROUP
	DATE PREPARED: _____	01/26/2023
	JOB NUMBER: _____	2277-01-C121
ENERGY COMPLIANCE	PREPARED BY: _____	
	DATE PREPARED: _____	
	JOB NUMBER: _____	
TRUSS CALCULATIONS	PREPARED BY: _____	
	DATE PREPARED: _____	
	JOB NUMBER: _____	

DEFERRED SUBMITTALS

- ROOF TRUSS CALCULATIONS (REQUIRES REVIEW BY LICENSED STRUCTURAL ENGINEER)
- FIRE SPRINKLER (YES / NO) (SEPARATE PLAN CHECK / PERMIT)
- SOLAR PV (-KW) (SEPARATE PLAN CHECK / PERMIT)
- GEOTECHNICAL REPORT (YES / NO) (SEPARATE PLAN CHECK / PERMIT)

PROJECT DIRECTORY

*FOR PLANNING STAFF ONLY
INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: _____

APPLICANT/OWNER	ADDRESS: _____
	CONTACT: _____
	EMAIL: _____
	PHONE: _____
ARCHITECT (MODIFICATION TO PROTOTYPE)	RRM DESIGN GROUP ADDRESS: 3765 S Higuera St, Suite 102 SAN LUIS OBISPO, CA 93401
	CONTACT: _____
	EMAIL: _____
	PHONE: P:(805) 543-1794
ARCHITECT (MODIFICATION TO PROTOTYPE)	ADDRESS: _____
	CONTACT: _____
	EMAIL: _____
	PHONE: _____
CIVIL ENGINEER	RRM DESIGN GROUP ADDRESS: 3765 S Higuera St, Suite 102 SAN LUIS OBISPO, CA 93401
	CONTACT: _____
	EMAIL: _____
	PHONE: P:(805) 543-1794
LANDSCAPE ARCHITECT	ADDRESS: _____
	CONTACT: _____
	EMAIL: _____
	PHONE: _____
STRUCTURAL ENGINEER	RRM DESIGN GROUP ADDRESS: 3765 S Higuera St, Suite 102 SAN LUIS OBISPO, CA 93401
	CONTACT: JESSICA MEADOWS
	EMAIL: JMMEADOWS@RRMDESIGN.COM
	PHONE: P:(805) 543-1794
MECHANICAL ENGINEER	ADDRESS: _____
	CONTACT: _____
	EMAIL: _____
	PHONE: _____
ELECTRICAL ENGINEER	ADDRESS: _____
	CONTACT: _____
	EMAIL: _____
	PHONE: _____
UTILITIES	UPON APPROVAL, PLEASE BE PREPARED TO PROVIDE APPROVAL STAMPS FROM APPLICABLE AGENCIES, AS FOLLOWS, PRIOR TO ISSUANCE OF BUILDING PERMIT. WATER SERVICE CARPINTERIA SUMMERLAND WATER DISTRICT SEWER SERVICE CARPINTERIA SANITARY DISTRICT ELECTRICAL SERVICE SOUTHERN CALIFORNIA EDISON GAS SERVICE SO CAL GAS FIRE PREVENTION CARPINTERIA SUMMERLAND FIRE PREVENTION DISTRICT (CSFPD) GARBAGE SERVICE E.J. HARRISON TELEPHONE SERVICE CABLE SERVICE COX CABLE

PROJECT INFORMATION

*FOR PLANNING STAFF ONLY
INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: _____

PROJECT SCOPE:	1. CONSTRUCTION OF A NEW DETACHED ONE STORY 400 SF ACCESSORY DWELLING UNIT WITH ONE BEDROOM AND ONE BATH. 2. ALL SITE WORK WITHIN THE PROPERTY LINE. 3. ALL THE WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS.
SITE INFORMATION: (TO BE PROVIDED BY CITY OF CARPINTERIA)	STREET ADDRESS: _____ APN: _____ ZONING: _____ LOT SIZE: _____ LAND USE: _____ EXISTING USE: _____ PROPOSED USE: _____
FLOOR AREA RATIO (TO BE PROVIDED BY CITY OF CARPINTERIA)	MAXIMUM FAR: _____ PROPOSED FAR: _____
LOT COVERAGE (TO BE PROVIDED BY OWNER)	BUILDING: _____ HARDSCAPE/PAVING: _____ LANDSCAPE: _____
SETBACKS (TO BE PROVIDED BY CITY OF CARPINTERIA)	FRONT: _____ REAR: _____ SIDES: _____

BUILDING INFORMATION:	NUMBER OF STORIES: _____ 1
	OCCUPANCY GROUP: _____ R-3
	CONSTRUCTION TYPE: _____ V/B
	SPRINKLERED: _____ SEE FIRE SPRINKLER SECTION ON SHEET
	MAX. HEIGHT ALLOWED: (PER 2022 CBC TABLE 504.3) 16'-0"
	MAX. HEIGHT ALLOWED: (PER CITY OF CARPINTERIA) 16'-0"
	MAX. HEIGHT PROPOSED: _____
	ROOF RATING: _____ CLASS A
	HIGH FIRE ZONE: _____ REFER TO 'WILDLAND-URBAN INTERFACE FIRE AREA' AND 'VERY-HIGH FIRE SEVERITY ZONE' SECTIONS ON SHEET

BUILDING AREAS

AREAS - PLAN 1	
PLAN 1	400 SF

PROJECT CHECKLIST

*FOR PLANNING STAFF ONLY
INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: _____

STYLE SELECTION	<input type="checkbox"/> CAL RANCH <input type="checkbox"/> STRIKE THROUGH SHEETS A1-122 & A2-202 & AD-904 <input type="checkbox"/> COASTAL COTTAGE <input type="checkbox"/> STRIKE THROUGH SHEETS A1-121 & A1-201 & AD-903
WASTE WATER	<input type="checkbox"/> SEWER <input type="checkbox"/> SEPTIC (REQUIRES APPROVAL)
FIRE SPRINKLERS	DOES THE PRIMARY RESIDENCE HAVE NFPA 13D SPRINKLERS? <input type="checkbox"/> NO <input type="checkbox"/> YES REQUIRED AT PROPOSED ADU: <input type="checkbox"/> NO (NOT REQUIRED IF THE PRIMARY RESIDENCE IS UNSPRINKLERED) <input type="checkbox"/> YES (REQUIRED IF THE PRIMARY RESIDENCE IS SPRINKLERED)

FIRE SPRINKLERS NOTES

- IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY.
- AUTOMATIC FIRE SPRINKLER SYSTEM - AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED AS PER NFPA 13D THE MOST CURRENT EDITION. DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE PREVENTION BUREAU AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR.
- SECTION 903.2.1 GROUP R** AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA. THIS INCLUDES SINGLE FAMILY DWELLINGS, MULTI-FAMILY DWELLINGS AND ALL RESIDENTIAL CARE FACILITIES REGARDLESS OF OCCUPANT LOAD.
- SECTION 903.2.1.1** ADDITIONS AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH 903.3 MAY BE REQUIRED TO BE INSTALLED THROUGHOUT STRUCTURES WHEN THE ADDITION IS MORE THAN 50% OF THE EXISTING BUILDING OR WHEN THE ALTERED BUILDING WILL EXCEED A FIRE FLOW OF 1,500 GALLONS PER MINUTE AS CALCULATED PER SECTION 507.3. THE FIRE CODE OFFICIAL MAY REQUIRE AN AUTOMATIC SPRINKLER SYSTEM BE INSTALLED IN BUILDINGS WHERE NO WATER MAIN EXISTS TO PROVIDE THE REQUIRED FIRE FLOW OR WHERE A SPECIAL HAZARD EXISTS SUCH AS: POOR ACCESS ROADS, GRADE, BLUFFS AND CANYON RIMS, HAZARDOUS BRUSH AND RESPONSE TIMES GREATER THAN 5 MINUTES BY A FIRE DEPARTMENT.
- SECTION 903.2.1.2** REMODELS OR RECONSTRUCTION AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 MAY BE REQUIRED IF THE SCOPE OF WORK INCLUDES SIGNIFICANT MODIFICATION TO THE INTERIOR AND/OR ROOF OF THE BUILDING, AND THE COST OF THE INSTALLATION DOES NOT EXCEED 15 PERCENT OF THE CONSTRUCTION COSTS OF THE REMODEL.
- LOCATION AND SIZE OF WATER SERVICE UNDERGROUND SHALL BE INSTALLED AS SHOWN ON APPROVED FIRE SPRINKLER PLANS. A MINIMUM 1 INCH WATER SHALL BE INSTALLED.
- A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION.
- A HYDRO INSPECTION OF THE FIRE SPRINKLER SYSTEM IS REQUIRED PRIOR TO FRAME INSPECTION. ONLY THE NEW PIPING SHALL BE TESTED.

ONSITE PARKING REQUIRED

- NONE
EXCEPTION USED:
 STUDIO UNIT, NO PARKING REQUIRED.
 THE ADU IS LOCATED WITHIN 1/2 MILE OF PUBLIC TRANSIT.
 THE ADU IS LOCATED WITHIN A ARCHITECTURALLY AND HISTORICALLY SIGNIFICANT STRUCTURE.
 OFF STREET PARKING PERMITS ARE REQUIRED BUT NOT OFFERED TO THE OCCUPANT OF THE ADU.
 WHEN THERE IS A CAR SHARE VEHICLE LOCATED WITHING ONE BLOCK OF THE ADU.
 ONE PARKING SPACE (1-BEDROOM ADU)
 TWO PARKING SPACES (2-BEDROOM ADU)

REQUIRED FIRE RATED DETAILS

- ROOF EAVE DETAIL (33/A1-902 &)
 WALL FINISH DETAIL ()
 WINDOW NOTES ()
FIRE RATED DETAILS BOVE ARE TO BE USED WHEN WALLS ARE LESS THAN 10 FEET FROM A PROPERTY LINE, WHEN ROOF EAVES ARE LESS THAN 5 FEET FROM PROPERTY LINES, AND WHEN THE PROJECT IS LOCATED WITHIN THE VERY HIGH FIRE HAZARD SEVERITY ZONE. STRUCTURES SHALL COMPLY WITH THE CURRENT CBC CHAPTER 7A.

VERY HIGH FIRE SEVERITY ZONE

- NO
 YES
1. IF THE PROPERTY THAT WILL CONTAIN THE ADU IS IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE SEE NOTES BELOW
2. AN ADU IN THE VERY HIGH FIRE SEVERITY ZONE SHALL COMPLY WITH CHAPTER 7A OF THE CURRENT CALIFORNIA BUILDING CODE.
3. STRUCTURES IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE SHALL PROVIDE & MAINTAIN A FUEL MODIFICATION ZONE. FUEL MODIFICATION ZONES: THE APPLICANT SHALL PROVIDE & MAINTAIN FIRE/FUEL BREAKS TO THE SATISFACTION OF THE LOCAL FIRE DEPARTMENT. FIRE/FUEL BREAKS SHALL BE SHOWN ON THE GRADING, MAP, AND BUILDING PLANS.

EXTERIOR WALL MATERIAL

- CEMENT PLASTER STUCCO
 FIBER CEMENT - BOARD AND BATTEN SIDING
 FIBER CEMENT - LAP SIDING
 FIBER CEMENT - SHINGLE SIDING

WINDOW MATERIAL

- VINYL
 FIBERGLASS
 WOOD
 ALUMINUM CLAD WOOD

ROOF MATERIAL

- COMPOSITION SHINGLES
 STANDING SEAM METAL ROOF
 CLAY ROOF TILES

CARPINTERIA ADU PROTOTYPES

SANTA BARBARA COUNTY, CA

TITLE SHEET - PLAN 1

DATE
02/18/23
SHEET
G-001

FLOOR PLAN NOTES

- WATER HEATER** (REFER TO BUILDING ENERGY ANALYSIS REPORT);
 - ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED. (2022 CPC 609.12.1)
 - PIPES UP TO 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN DIAMETER OF PIPE. (2022 CPC 609.12.2)
 - PIPES GREATER THAN 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN 2 INCHES. (2022 CPC 609.12.2)
 - EXCEPTIONS:**
 - PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. (2022 CPC 609.12.2)
 - HOT WATER PIPING BETWEEN THE FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE OR APPLIANCE SHALL NOT BE REQUIRED TO BE INSULATED. (2022 CPC 609.12.2)
 - PROVIDE A TEMPERATURE AND PRESSURE RELIEF VALVE WITH A FULL SIZE DRAIN OF GALVANIZED STEEL OR HARD DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE PROTRUDING 6" MINIMUM @ 2" MAX. ABOVE GRADE POINTING DOWNWARD TO THE TERMINATION - UNTHREADED.
 - COMBUSTION AIR PER MANUFACTURE REQUIREMENTS.
 - CLEARANCES PER MANUFACTURE REQUIREMENTS.
 - INSULATION FOR PIPING AND TANKS** (2022 CEC 105.0(i))
 - WATER HEATER, WATER-HEATING SYSTEM PIPING, AND SPACE-CONDITIONING SYSTEM LINE INSULATION THICKNESS AND CONDUCTIVITY, PIPING SHALL BE INSULATED AS FOLLOWS:
 - DOMESTIC HOT WATER PIPING, SEE NOTES ABOVE.
 - PIPING FOR SPACE-CONDITIONING SYSTEMS, SOLAR WATERHEATER SYSTEM COLLECTOR LOOP, SEE 2022 CEC SECTION 120.3(c).
 - EXCEPTION:**
 - PIPING SURROUNDED WITH A MINIMUM OF 1 INCH OF WALL INSULATION, 2 INCHES OF CRAWLSPACE INSULATION, OR 4 INCHES OF ATTIC INSULATION SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION.
 - INSULATION PROTECTION:** PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. PROTECTION SHALL, AT MINIMUM, INCLUDE THE FOLLOWING (2022 CEC SECTION 120.3(b)):
 - PIPE INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED BY A COVER SUITABLE FOR OUTDOOR SERVICE. THE COVER SHALL BE WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE USED TO PROVIDE THIS PROTECTION.
 - PIPE INSULATION COVERING CHILLED WATER PIPING AND REFRIGERANT SUCTION PIPING LOCATED OUTSIDE THE CONDITIONED SPACE SHALL INCLUDE, OR BE PROTECTED BY, A CLASS I OR CLASS II VAPOR RETARDER. ALL PENETRATIONS AND JOINTS SHALL BE SEALED.
 - PIPE INSULATION BURIED BELOW GRADE MUST BE INSTALLED IN A WATER PROOF AND NONCRUSHABLE CASING OR SLEEVE.
- WEATHER BARRIERS.**
 - NOT FEWER THAN ONE-LAYER WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS CONTINUOUS FROM TOP OF WALL AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES WITH FLASHING. MINIMUM NO. 15 FELT COMPLYING WITH ASTM D226, TYPE 1.
 - PROVIDE (2) LAYERS OF GRADE D PAPER OR EQUAL WHEN PLASTER IS INSTALLED OVER WOOD BASED SHEATHING. (2022 CRC R703.7.3)
- DOMESTIC RANGE** VENTILATION DUCTS SHALL HAVE SMOOTH INTERIOR SURFACES. (2022 CMC 504.3)
- CLOTHES DRYER** MOISTURE EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND HAVE A BACK-DRAFT DAMPER. EXHAUST DUCT IS LIMITED TO 14'-0" W/ TWO ELBOWS. THIS SHALL BE REDUCED 2'-0" FOR EVERY ELBOW IN EXCESS OF TWO. MIN. DIA. 4". SMOOTH, METAL DUCT. (2022 CMC 504.4)
- ALL MANUFACTURED EQUIPMENT** SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION AND DIMENSIONS VERIFIED WITH INSTALLATION REQUIREMENTS. ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHOULD BE ON SITE FOR INSPECTIONS.
- SHOWERS AND TUB-SHOWERS:** CONTROL VALVES MUST BE PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. (2022 CPC 417.0.)
- WET-ROOM GLAZING.** PROVIDE TEMPERED GLAZING IN DOORS AND ENCLOSURES FOR SHOWERS, BATHTUBS, SAUNAS, STEAM ROOMS, HOT TUBS & SIMILAR USES WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60-INCHES ABOVE STANDING SURFACE. (2022 CRC R308.4.5)
- HEATING AND AIR-CONDITIONING SYSTEM DESIGN** SHALL CONFORM TO CALGREEN SEC. 4.507, ENVIRONMENTAL COMFORT.
- WATER CLOSETS.**
 - CLEARANCES: 24" MIN. FRONT, 30" MIN COMPARTMENT WIDTH.
 - PROVIDE A MIN 3 SF WINDOW, 1/2 OF WHICH SHALL BE OPENABLE OR AN EXHAUST FAN 50 CFM FOR INTERMITTENT OR 20 CFM FOR CONTINUOUS DIRECT VENT TO OUTSIDE WITH BACKDRAFT DAMPER. (2022 CRC R303.3)
 - NEW WATER CLOSETS AND ASSOCIATED FLUSHOMETER VALVES, IF ANY SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH AND SHALL MEET PERFORMANCE STANDARDS ESTABLISHED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS STANDARD A112.19.2. H & S CODE, SECTION 17921.3(B).
- BATH ACCESSORIES:** PROVIDE MINIMUM 1 TOILET PAPER HOLDER AND 1 TOWEL BAR PER BATHROOM. PROVIDE NECESSARY BLOCKING FOR TOILET PAPER HOLDER AND TOWEL BARS.
- WHOLE-BUILDING MECHANICAL VENTILATION SYSTEM** PER ASHRAE STANDARD 62.2. PROVIDE THE COUNTY INSPECTOR THE FOLLOWING INFORMATION AT OR BEFORE THE TIME OF INSPECTION:
 - CALCULATIONS FOR REQUIRED VENTING RATES.
 - CALCULATION ADJUSTMENTS FOR INTERMITTENT SYSTEMS IF APPLICABLE.
 - DUCT DIAMETER AND MAXIMUM DUCT LENGTH PER ASHRAE 62.2 TABLE 7.1.
 - TYPE OF SYSTEM USED AND PROVIDE COMPLETED CF-6R-MECH-05 FORM.
 - FANS SHALL BE A MAXIMUM OF 1 SONE.
 - FANS SHALL BE PROVIDED A COVER OF R-4.2 WHEN OFF.
- ATTIC ACCESS:**
 - PROVIDE 30" MIN. HEADROOM IN THE ATTIC SPACE (2019 CRC R807.1)
 - IN ATTIC, PROVIDE LIGHT AND SWITCH, AND ALL NECESSARY ELECTRICAL. PROVIDE UNOBSTRUCTED PASSAGEWAY 24" WIDE OF SOLID CONTINUOUS FLOORING FROM ACCESS TO EQUIPMENT AND ITS CONTROLS. ALSO PROVIDE UNOBSTRUCTED WORK SPACE IN FRONT OF EQUIPMENT 30" DEPTH MINIMUM. PROVIDE COMBUSTION AIR AND CONDENSATE LINE TO OUTSIDE OR AN APPROVED DRAIN FOR OPTIONAL AIR CONDITIONING.
 - BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 SQUARE FEET AND HAVE A VERTICAL HEIGHT OF 30-INCHES OR GREATER. THE VERTICAL HEIGHT SHALL BE MEASURED FROM TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS.
 - THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND SHALL BE LOCATED NOT OVER 20 FEET FROM THE EQUIPMENT. (2022 CRC R807.1)
 - PROVIDE A 120V RECEPTACLE AND A LIGHT NEAR THE EQUIPMENT WITH LIGHT SWITCH LOCATED AT THE ATTIC ACCESS.

ELECTRICAL NOTES

- CONFORM WITH CURRENT NEC, NFPA, MFR'S, AND LOCAL REQUIREMENTS.
- ELECTRICAL SYSTEMS AND GROUNDING SHALL BE PROVIDED PER NEC ARTICLE 250-81.
- ALL MATERIALS TO BE U.L. LABELED.
- METER: "SQUARE D", 120 VOLT/ 240 VOLT, 1 AND 3 WIRE GROUND OR EQUAL.
- ELECTRICAL SUB PANEL: FLUSH MOUNT, 30" CLEARANCE, 100 AMP.
- CONDUCTORS: TW, THW, COPPER, MINIMUM 14 AT LIGHTING, 12 AT OTHER CIRCUITS.
- LAMPS: FOR GENERAL LIGHTING IN KITCHENS AND BATH SHALL HAVE AN EFFICIENCY OF NOT LESS THAN 40 LUMENS/ WATT. ALL SOCKETS FILLED WITH SOFT-WHITE, 55 WATT FLUORESCENT: COOL WHITE, RS, SOUND RATING "A", 40 WATT (U.O.N.).
- ALL ELECTRICAL OUTLETS INSTALLED IN BATHROOMS, GARAGES, BASEMENTS, CRAWL SPACES, OUTDOORS, KITCHEN COUNTERTOPS, AND AT WET BAR SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION IN COMPLIANCE WITH NEC Art. 210-8, CONSISTING OF 125 VOLT, SINGLE-PHASE, 15- AND 20- AMPERE RECEPTABLES.
- ALL BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY A MINIMUM OF ONE 120-VOLT, 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. THIS DEDICATED CIRCUIT MAY SERVE MORE THAN ONE BATHROOM. (2022 CEC 210.11(C))
- PROVIDE ELECTRIC OUTLET AND PUSH-BUTTON WIRE FOR GARAGE OPENER (INCLUDE OPENER).
- THERMOSTAT SHALL BE A PROGRAMMABLE TYPE, HONEYWELL TH8320 OR EQUAL.
- RECESSED LUMINAIRES INSTALLED IN AREAS TO RECEIVE INSULATION SHALL BE "IC" LUMINAIRES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE.
- UNLESS SUSPENDED (HUBLE) FANS SHALL BE SUPPORTED INDEPENDENTLY OF AN OUTLET BOX OR BY LISTED OUTLET BOX OR OUTLET BOX SYSTEMS IDENTIFIED FOR THE USE AND INSTALLED IN ACCORDANCE WITH 2022 CEC 314.27(C) (2022 CEC 422.18).
- ALL LUMINAIRES, LAMP HOLDERS, AND RETROFIT KITS SHALL BE LISTED (2022 CEC 410.6)
- ALL 120-VOLT, SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. (2022 CEC 210-12(A)).
- ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMPERE RECEPTABLES IN A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTABLES. EXCEPTIONS: (1) RECEPTABLES MORE THAN 5' ABOVE THE FLOOR, (2) RECEPTABLES PART OF A LUMINAIRE OR APPLIANCE, (3) A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD-AND-PLUG CONNECTED AS PER CEC 400.7, AND (4) NON-GROUNDING RECEPTABLES USED FOR REPLACEMENTS AS PERMITTED IN CEC 408.4(D)(2)(A).
- HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID LIGHTING CONTAIN ONLY ONLY HIGH EFFICACY LAMPS AS OUTLINED IN TABLE 150-C OF THE RESIDENTIAL ENERGY CODE AND NOT CONTAIN A MEDIUM SCREW BASE SOCKET.
- BALLAST FOR LAMPS 13 WATTS OR GREATER SHALL BE ELECTRONIC AND HAVE AN OUTPUT FREQUENCY NO LESS THAN 20 khz.
- SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL SMOKE DETECTORS SHALL BE INTERCONNECTED. ALL SMOKE DETECTORS SHALL MAINTAIN A MINIMUM 3 FOOT CLEARANCE TO HVAC SUPPLY OR RETURN AIR REGISTERS.
- CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL CARBON MONOXIDE ALARMS SHALL BE INTERCONNECTED.
- ALL LIGHTS IN OTHER THAN KITCHENS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS MUST BE CONTROLLED BY A DIMMER OR CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR. SUCH SENSORS SHALL BE CAPABLE OF AUTOMATICALLY TURNING OFF THE LIGHTS NO MORE THAN 30 MINUTES AFTER THE AREA HAS BEEN VACATED.
- EXHAUST FANS WILL BE CONTROLLED BY A HUMIDISTAT PER THE GREEN BUILDING STANDARDS CODE SECTION 4.506. EXHAUST FANS MUST BE SWITCHED SEPARATELY FROM LIGHTS (2022 CEngC 150.0(k)(2)).
- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL BE HIGH EFFICACY AND MUST MEET THE REQUIREMENTS IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III.
 - i) CONTROLLED BY A MANUAL ON AND OFF SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS ii OR iii BELOW; AND
 - ii) CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL; OR
 - iii) CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL.

NOTE: CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERIDE AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS.

- AT LEAST ONE LUMINAIRE EACH BATHROOM, LAUNDRY ROOM, AND UTILITY ROOM SHALL BE CONTROLLED BY A MANUAL ON/AUTOMATIC-OFF VACANCY SENSOR.
- EXCEPT FOR CLOSETS LESS THAN 70 SQUARE FEET AND HALLWAYS, ALL LUMINAIRES THAT ARE INSTALLED WITH JAB-CERTIFIED LIGHT SOURCES ARE REQUIRED TO BE CONTROLLED BY EITHER A DIMMER, VACANCY SENSOR OR FAN SPEED CONTROL.

PLUMBING NOTES

- CONFORM WITH CURRENT CPC AND LOCAL REQUIREMENTS.
- PIPING:
 - DOMESTIC WATER (WITHIN BUILDING): COPPER OR PEX PIPE OR APPROVED EQUAL.
 - GAS, UNDERGROUND: WRAPPED OR COATED
 - AIR CHAMBERS: 12" LONG CAPPED NIPPLE AT END OF EACH BRANCH TO EACH FIXTURE.
 - ELECTRICAL UNIONS "F.P.C.O." REQUIREMENT AT ALL DISSIMILAR MATERIAL CONNECTIONS.
 - WHEN "OPTIONAL" SOFT-WATER LOOP INSTALLED, PROVIDE WITH 2 GATE VALVES.
- WATER SERVICE PIPE SHALL BE PER CIVIL PLANS OR AS REQUIRED BY THE JURISDICTION.
- WATER METER: PER WATER DISTRICT (REFER SIZE W/ FIRE SPRINKLER PLANS IF APPLICABLE).
- SHOWER HEADS AND FAUCETS: FLOW RATES PER 2022 CGBCS SECTION 4.303.
- PIPE INSULATION: REFER TO TITLE 24 - MANDATORY MEASURES - "SPACE CONDITIONING, WATER HEATING & PLUMBING SYSTEM MEASURES"
- STRAPS AND HANGERS: PROVIDE AS NECESSARY TO INSURE A STABLE INSTALLATION. SEE TITLE-24 FOR WATER HEATER REQUIREMENTS.
- ALL HOSE BIBS SHALL HAVE APPROVED BACK FLOW PREVENTION DEVICES. PLUMBING FIXTURES (WATER CLOSETS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN CALGREEN TABLE 4.303.3.
- WATER HEATER SHALL BE PROVIDED WITH A TEMPERATURE AND PRESSURE RELIEF VALVE. PER (2022 CPC 505.2) THE RELIEF VALVE SHALL BE PROVIDED WITH A DRAIN LINE WHICH EXTENDS FROM THE VALVES TO THE OUTSIDE OF THE BUILDING. PER (2022 CPC 505.2)
- PER 2022 CPC 603.5.7 OUTLETS WITH HOSE ATTACHMENTS, POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, OTHER THAN WATER HEATER DRAINS, BOILER DRAINS, AND CLOTHES WASHER CONNECTIONS, SHALL BE PROTECTED BY A NONREMOVABLE HOSE BIBB TYPE BACKFLOW PREVENTER, A NONREMOVABLE HOSE BIBB TYPE VACUUM BREAKER, OR BY AN ATMOSPHERE VACUUM BREAKER INSTALLED NOT LESS THAN 6 INCHES ABOVE THE HIGHEST POINT OF USAGE LOCATED ON THE DISCHARGE SIDE OF THE LAST VALVE. IN CLIMATES WHERE FREEZING TEMPERATURES OCCUR, A LISTED SELF DRAINING FROST-PROOF HOSE BIBB WITH AN INTEGRAL BACKFLOW PREVENTER OR VACUUM BREAKER SHALL BE USED.

MECHANICAL NOTES

- CONFORM WITH CURRENT ADOPTED CRC, CMC, SMACNA, NFPA AND LOCAL REQUIREMENTS.
- DUCTWORK: SMACNA "LOW VELOCITY DUCT CONSTRUCTION" NFPA STANDARD #90A. ALL TRANSVERSE DUCT PLENUM AND FITTING JOINTS SHALL BE SEALED WITH PRESSURE SENSITIVE NON-CLOTH TAPE MEETING THE REQUIREMENTS OF UL 181, 181A, OR 181B, OR MASTIC TO PREVENT AIR LOSS. DUCTS SHALL BE INSULATED AS REQUIRED BY THE UMC. SEE FLOOR PLAN FOR F.A.U. AND FIREPLACES DUCTS PENETRATING A WALL OR FLOOR-CEILING BETWEEN GARAGE & DWELLING TO BE MINIMUM 26 GAUGE METAL WITHOUT OPENING IN GARAGE. FIRE DAMPER REQUIRED OTHERWISE.
- GRILLES AND REGISTERS, DIFFUSERS, ETC. SUBJECT TO OWNERS APPROVAL. "CARNES" OR EQUAL FANS: DIRECTLY VENTED TO OUTSIDE. BACK DRAFT DAMPERS ARE REQUIRED (PER TABLE 2-53V, TITLE 24 C.A.C.).
- THE RETURN AIR PLENUM SERVING THE MECHANICAL EQUIPMENT MUST BE FULLY DUCTED FROM THE EQUIPMENT TO THE CONDITIONED SPACE. DROP CEILINGS, WALL CAVITIES AND EQUIPMENT PLATFORMS MAY NOT BE USED AS PLENUMS.
- LAUNDRY DRYER VENT TO EXTERIOR TO BE 14 FEET MAXIMUM, LESS 2 FEET PER 90 DEGREE TURN PER CMC 504.3.2.2. IF VENT IS OVER 14' AN APPROVED POWER ASSISTED DEVICE IS REQUIRED.
- BATHROOM EXHAUST FANS (BATHROOM APPLIES TO ROOMS CONTAINING BATH, SHOWER, OR TUB-SHOWER COMBINATION) WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING (2022 CGBCS SEC. 4.506.1):
 - FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING MIN 3' FROM OPENINGS
 - UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
 - HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
 - A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E. BUILT IN)
- BATHROOM EXHAUST FANS SHALL PROVIDE MINIMUM 50 CFM EXHAUST RATE (2022 CMC TABLE 403.7)
- KITCHEN EXHAUST FANS SHALL PROVIDE MINIMUM 100 CFM EXHAUST RATE (2022 CMC TABLE 403.7)
- PER 2022 CEngC 150(m) PORTIONS OF SUPPLY-AIR AND RETURN-AIR DUCTS AND PLENUMS SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-6.0 (OR ANY LEVEL HIGHER LEVEL REQUIRED BY 2022 CMC SECTION 605) OR BE ENCLOSED ENTIRELY IN CONDITIONED SPACE.

TITLE 24 COMPLIANCE

- ALL INTERIOR RESIDENTIAL LIGHTING IS TO BE HIGH EFFICACY.
- THE FOLLOWING LIGHTING IS HIGH EFFICACY: PIN BASED LINEAR FLUORESCENT, PIN BASED COMPACT FLUORESCENT, PULSE-START METAL HALIDE, HIGH PRESSURE SODIUM, GU-24 (OTHER THAN LED'S), INSEPARABLE SOLID STATE LUMINAIRES (SSL'S) INSTALLED OUTDOORS OR INSEPARABLE SSL LUMINAIRES WITH COLORED LIGHT SOURCES FOR DECORATIVE LIGHTING PURPOSES. (2022 CEngC TABLE 150.0-A)
- THE FOLLOWING LAMPS AND LIGHT SOURCES ARE HIGH EFFICACY IF THEY ARE JOINT APPENDIX JAB-CERTIFIED. JAB-C CERTIFIED LAMPS AND LIGHT SOURCES ARE MARKED AS "JAB-2016" OR "JAB-2016-E". THESE FIXTURES INCLUDE LED LUMINAIRES WITH INTEGRAL LIGHT SOURCES THAT ARE CERTIFIED TO THE ENERGY COMMISSION, SCREW-BASED LED LAMPS (A-LAMPS, PAR LAMPS, ETC.), PIN BASED LED LAMPS (MR-16, AR-111, ETC.), GU-24 BASED LED LIGHT SOURCES AND OTHER LUMINAIRES. (2022 CEngC TABLE 150.0-A) LISTING OF CA CERTIFIED FIXTURES IS LOCATED ON THE CALIFORNIA ENERGY COMMISSION WEBSITE AT [HTTP://APPLIANCES.ENERGY.CA.GOV/ADVANCESEARCH/ASPX](http://appliances.energy.ca.gov/advancesssearch/aspx)
- RECESSED LUMINAIRES INSTALLED IN AREAS TO RECEIVE INSULATION SHALL BE "IC" LUMINAIRES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE.
- UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY EITHER ITEM I OR ITEM II.
 - SHALL NOT HAVE SCREW BASED SOCKETS,
 - SHALL CONTAIN JAB-CERTIFIED LIGHT SOURCES AND
 - SHALL MEET PERFORMANCE REQUIREMENTS OF 2022 CEngC SECTION 150.0(k)(1).
- THE NUMBER OF ELECTRICAL BOXES LOCATED MORE THAN 5 FEET ABOVE FINISHED FLOOR THAT DO NOT CONTAIN ALUMINAIRE OR OTHER DEVICE SHALL NOT EXCEED THE NUMBER OF BEDROOMS. THESE BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR OR FAN SPEED CONTROL. (2022 CEngC SECTION 150.0(k)(1)(b)).
- UNDERCABINET LIGHTING MUST BE SWITCHED SEPARATE FROM ALL OTHER LIGHTING.
- ALL LIGHTING MUST HAVE READILY ACCESSIBLE MANUAL CONTROLS
- EXHAUST FANS MUST BE SWITCHED SEPARATE FROM LIGHTING, OR UTILIZE A DEVICE WHERE LIGHTING CAN BE TURNED OFF WHILE THE FAN IS RUNNING.
- FOR ALL SPACE TYPES EXCEPT HALLWAYS AND CLOSETS THAT ARE 70 SF OR SMALLER, VANCAY SENSORS OR DIMMERS ARE REQUIRED WHEN USING A SOURCE REGULATED BY JAB.
- ATTIC ACCESS DOORS SHALL HAVE PERMANENTLY ATTACHED INSULATION USING ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE (2022 CEngC 150.0(a)(2))
- ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY IN ACCORDANCE WITH CEngC TABLE 150.0-A. (2022 CEngC 150.0(k)(1A)).
- THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, OR FAN SPEED CONTROL. (2022 CEngC 150.0(k)(1B)).

SOLAR READY NOTES

SOLAR READY REQUIREMENTS PER CEngC 110.10(b) THROUGH 110.10(e)

- SOLAR ZONE:**
- MINIMUM AREA.** THE SOLAR ZONE SHALL HAVE A MINIMUM TOTAL AREA AS DESCRIBED BELOW. THE SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION, AND SPACING REQUIREMENTS AS SPECIFIED IN TITLE 24, PART 5 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED BY LOCAL JURISDICTION.
 - THE SOLAR ZONE TOTAL AREA SHALL BE COMPRISED OF AREAS THAT HAVE NO DIMENSION LESS THAN FIVE FEET AND ARE NO LESS THAN 80 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS LESS THAN OR EQUAL TO 10,000 SQUARE FEET OR NO LESS THAN 160 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS GREATER THAN 10,000 SQUARE FEET.

EXCEPTION 1 TO SECTION 110.10(B)(1A) SINGLE FAMILY RESIDENCES WITH A PERMANENTLY INSTALLED DOMESTIC SOLAR WATER-HEATING SYSTEM MEETING THE INSTALLATION CRITERIA SPECIFIED IN THE REFERENCE RESIDENTIAL APPENDIX R44 AND WITH A MINIMUM SOLAR SAVINGS FRACTION OF 0.50.

EXCEPTION 5 TO SECTION 110.10(B)(1A) SINGLE FAMILY RESIDENCES HAVING A SOLAR ZONE TOTAL AREA NO LESS THAN 150 SQUARE FEET AND WHERE ALL THERMOSTATS ARE DEMAND RESPONSIVE CONTROLS AND COMPLY WITH SECTION 110.12(A), AND ARE CAPABLE OF RECEIVING AND RESPONDING TO DEMAND RESPONSE SIGNALS PRIOR TO GRANTING OF AN OCCUPANCY PERMIT BY THE ENFORCING AGENCY.

- EXCEPTION 6** TO SECTION 110.10(B)(1A) SINGLE-FAMILY RESIDENCES MEETING THE FOLLOWING CONDITIONS:
- ALL THERMOSTATS ARE DEMAND RESPONSIVE CONTROLS THAT COMPLY WITH SECTION 110.12(A), AND ARE CAPABLE OF RECEIVING AND RESPONDING TO DEMAND RESPONSE SIGNALS PRIOR TO GRANTING OF AN OCCUPANCY PERMIT BY THE ENFORCING AGENCY.
 - COMPLY WITH ONE OF THE FOLLOWING MEASURES:
 - INSTALL A DISHWASHER THAT MEETS OR EXCEEDS THE ENERGY STAR PROGRAM REQUIREMENTS WITH A REFRIGERATOR THAT MEETS OR EXCEEDS THE ENERGY STAR PROGRAM REQUIREMENTS, A WHOLE HOUSE FAN DRIVEN BY AN ELECTRONICALLY COMMUTATED MOTOR, OR AN SAE J1772 LEVEL 2 ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE OR EV CHARGER) WITH A MINIMUM CORD LENGTH OF 10 FEET.
 - INSTALL A HOME AUTOMATION SYSTEM CAPABLE OF, AT A MINIMUM, CONTROLLING THE APPLIANCES AND LIGHTING OF THE DWELLING AND RESPONDING TO DEMAND RESPONSE SIGNALS; OR
 - INSTALL ALTERNATIVE PLUMBING PIPING TO PERMIT THE DISCHARGE FROM THE CLOTHES WASHER AND ALL SHOWERS AND BATHTUBS TO BE USED FOR AN IRRIGATION SYSTEM IN COMPLIANCE WITH THE CALIFORNIA PLUMBING CODE AND ANY APPLICABLE LOCAL ORDINANCES; OR
 - INSTALL A RAINWATER CAPTUREMENT SYSTEM DESIGNED TO COMPLY WITH THE CALIFORNIA PLUMBING CODE AND ANY APPLICABLE LOCAL ORDINANCES, AND THAT USES RAINWATER FLOWING FROM AT LEAST 65 PERCENT OF THE AVAILABLE ROOF AREA.

WILDLAND-URBAN INTERFACE

- ROOF COVERING SHALL COMPLY WITH 2022 CRC R337.6.2 UNDERLAYMENT SHALL BE ONE LAYER OF OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909 INSTALLED OVER THE COMBUSTIBLE DECKING. ALTERNATELY, A CLASS A FIRE RATED ROOF UNDERLAYMENT, TESTED IN ACCORDANCE WITH ASTM E108, SHALL BE APPLIED TO THE UNDERLAYER.
- ROOF VALLEYS SHALL COMPLY WITH 2022 CRC R337.5.3 VALLEY FLASHING SHALL BE NOT LESS THAN 26 GAGE GALVANIZED SHEET CORROSIVE RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909, AT LEAST 36 INCHES WIDE RUNNING THE FULL LENGTH OF THE VALLEY.
- ROOF GUTTERS SHALL COMPLY WITH 2022 CRC R337.5.4. ROOF GUTTERS SHALL BE PROVIDE WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER.
- VENTILATION OTHER THAN MECHANICAL SHALL COMPLY WITH 2022 CRC R337.6 - VENTILATION OPENINGS FOR ENCLOSED ATTICS, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, AND UNDERFLOOR VENTILATION OPENINGS SHALL BE FULLY COVERED WITH METAL WIRE MESH, VENTS, OTHER MATERIALS, OR OTHER DEVICES. REFER TO SECTIONS R337.6.1 THROUGH R337.6.3 FOR ADDITIONAL INFORMATION.
- EXTERIOR COVERINGS SHALL COMPLY WITH 2022CRC R337.7 EXTERIOR WALL COVERINGS OR WALL ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS: BE OF NONCOMBUSTIBLE MATERIAL, IGNITION-RESISTANT MATERIAL, HEAVY TIMBER EXTERIOR WALL ASSEMBLY, LOG WALL CONSTRUCTION OR REINFORCED CONCRETE WALL ASSEMBLIES THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10-MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN SFM STANDARD 12-7A-1. REFER TO SECTIONS R337.7.1 THROUGH R337.7.9 FOR ADDITIONAL INFORMATION.

SITE NOTES

- CALL BEFORE YOU DIG!** CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AT LEAST 2 WORKING DAYS BEFORE EXCAVATING.
- UNLESS OTHERWISE NOTED ON THE PLANS, FINISHED GROUND SURFACES SHALL BE GRADED TO DRAIN THE FINISHED SITE PROPERLY WITHIN 10- FEET OF ANY BUILDING FOUNDATION WITH A SLOPE OF 5% AWAY FROM ANY BUILDING OR STRUCTURE. ALL EXTERIOR HARDSCAPE WITHIN 10- FEET OF A BUILDING FOUNDATION SHALL BE INSTALLED WITH A 2% MINIMUM SLOPE AWAY FROM ANY BUILDING OR STRUCTURE. DRAINAGE SWALES SHALL BE A 1.5% MINIMUM SLOPE. ALL GRADED SURFACES SHALL HAVE A MAXIMUM SLOPE OF 3H TO 1V (33%), UNLESS SHOWN OTHERWISE ON THE PLANS.
- LOT GRADING SHALL CONFORM AT THE PROPERTY LINES AND SHALL NOT SLOPE TOWARD PROPERTY LINES IN A MANNER WHICH WOULD CAUSE STORING WATER TO FLOW ONTO NEIGHBORING PROPERTY. HISTORIC DRAINAGE PATTERNS SHALL NOT BE ALTERED IN A MANNER TO CAUSE DRAINAGE PROBLEMS TO NEIGHBORING PROPERTY.
- NEW RAINWATER DOWNSPOULTS SHALL BE DISCONNECTED AND DIRECT RUNOFF TO LANDSCAPED AREA. DOWNSPOULTS MAY BE CONNECTED TO A POP-UP DRAINAGE EMITTER IN THE LANDSCAPED AREA OR MAY DRAIN TO SPLASH BLOCKS OR COBBLESTONES THAT DIRECT WATER AWAY FROM THE BUILDING.
- CONTRACTOR TO FIELD VERIFY EXISTING DRAINAGE. IF THE EXISTING DRAINAGE SYSTEM IS DAMAGED DURING EXCAVATION, CONTRACTOR SHALL REPAIR AND/OR REPLACE DRAINAGE SYSTEM AND CONNECT TO EXISTING DRAINAGE FACILITY AS NECESSARY.
- EXISTING PUBLIC IMPROVEMENTS THAT ARE DAMAGED BY THE PROJECT CONSTRUCTION SHALL BE REPAIRED OR REPLACED. EXISTING DAMAGED PUBLIC IMPROVEMENTS WITHIN THE PROJECT LIMITS SHALL BE REPAIRED OR REPLACED EVEN IF THE DAMAGE OCCURRED PRIOR TO THE START OF CONSTRUCTION.
- EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO OCTOBER 1 AND SHALL BE MAINTAINED DAILY UNTIL APRIL 30. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE STORM WATERS INTO EXISTING STORM DRAIN FACILITIES. EROSION AND SEDIMENT CONTROL SUPPLIES MUST BE KEPT ON-SITE DURING THE DRY SEASON AND EMPLOYED, AS NECESSARY PRIOR TO AND DURING RAIN EVENTS.
- SEASONALLY APPROPRIATE BEST MANAGEMENT PRACTICES FOR THE FOLLOWING SITE MANAGEMENT CATEGORIES MUST BE IMPLEMENTED YEAR-ROUND: 1) EROSION CONTROL; 2) RUN-ON AND RUN-OFF CONTROL; 3) SEDIMENT CONTROL; 4) GOOD SITE MANAGEMENT; AND 5) NON-STORMWATER MANAGEMENT.
- AN ENCROACHMENT PERMIT WILL BE REQUIRED FOR ANY CONSTRUCTION ACTIVITY WITHIN A PUBLIC STREET RIGHT OF WAY THAT HAS BEEN ACCEPTED BY THE CITY.

ENERGY STORAGE READINESS

- ENERGY STORAGE SYSTEM (ESS) REQUIREMENTS:**
 - IN SINGLE-FAMILY RESIDENTIAL BUILDINGS THAT INCLUDE ONE OR TWO DWELLINGS, EACH DWELLING UNIT SHALL BE PROVIDED WITH DEDICATED RACEWAYS, DESIGNATED BRANCH CIRCUIT AND ISOLATION DEVICES FOR ENERGY STORAGE SYSTEMS AS SPECIFIED IN CALIFORNIA ENERGY CODE SECTION 150.0(S). ADDITIONALLY, THE PANELBOARDS SHALL BE PROVIDED WITH THE MINIMUM BUSBAR RATING AS SPECIFIED IN CALIFORNIA ENERGY CODE SECTION 150.0(S). (2022 CEC SECTION 706.10)

CALIFORNIA ENERGY CODE SECTION 150.0(S)

- AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED:
 - ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF 60 AMPES AND A MINIMUM OF FOUR ESS-SUPPLIED BRANCH CIRCUITS.
 - A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH CIRCUITS IN SECTION 150.0(S) (2). ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN 1 INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL BACKED-UP LOAD CIRCUITS."
- A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT MUST BE LOCATED NEAR THE PRIMARY EGRESS AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET.
- THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR RATING OF 225 AMPERES.
- SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE.



These plans are only to be used within City of Carpinteria jurisdiction. By using these standard plans ("ADU Plans") in accordance with the City of Carpinteria's Pre-Approved ADU Construction Plans Program, the User agrees to defend, indemnify, and hold harmless the City of Carpinteria and RRM from any and all claims, liabilities, suits, and demands on account of any injury, damage, or loss to persons or property, including injury or death, or economic losses, arising out of the use of these ADU Plans. The use of these ADU Plans does not eliminate or reduce the user's responsibility to verify any and all information herein.

CARPINTERIA ADU PROTOTYPES

SANTA BARBARA COUNTY, CA

GENERAL NOTES

DATE
02/18/23

SHEET

G-101

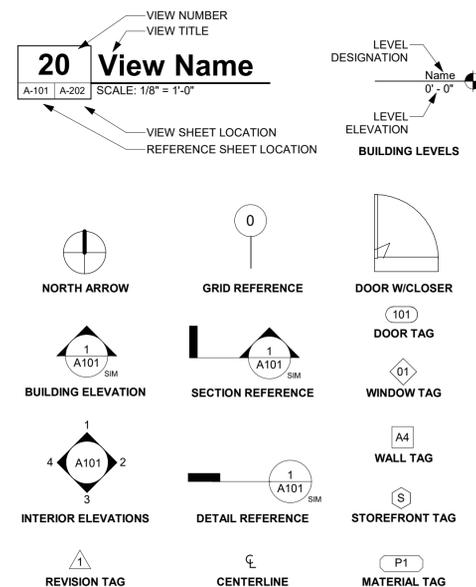
GENERAL NOTES

- APPLICABLE CODES AND STANDARDS:
 - 2022 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICES AND STANDARDS.
- CURRENT CITY OF CARPINTERIA, CA MUNICIPAL CODE.
 - ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, HE/SHE SHALL BE PROCEEDING AT HIS/HER OWN RISK.
- DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN THE IMMEDIATE AREA AND THE CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE.
- CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- FIRE SPRINKLER SHOP DRAWINGS & CALCULATIONS SHALL BE SUBMITTED TO BUILDING DEPT. & APPROVED BY FIRE DEPT. PRIOR TO INSTALLATION.
- SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATOR'S SHOP.
- OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR OVER.
- CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION BEFORE EXCAVATION BEGINS.
- CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS.
- VERIFY FIRE SPRINKLER AND FIRE ALARM REQUIREMENTS WITH AHJ, CSFD, AND FIRE MARSHAL.

ABBREVIATIONS

A/C	AIR CONDITIONING	FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	PV	PHOTO VOLTIC
ABV	ABOVE	FOM	FACE OF MASONRY	PVC	POLYVINYL CHLORIDE
ACOUS	ACOUSTICAL	FOS	FACE OF STUD	PVMT	PAVEMENT
ACT	ACOUSTICAL CEILING TILE	FRP	FIBERGLASS REINFORCED PANELS	QTY	QUANTITY
ADA	AMERICANS WITH DISABILITIES ACT	FT	FOOT OR FEET	R	RADIUS, RISER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	FTG	FOOTING	RB	RUBBER BASE
AFB	ABOVE FINISH FLOOR	GA	GAUGE, GAGE	RCP	REFLECTED CEILING PLAN
AL	ALUMINUM	GALV	GALVANIZED	RD	ROOF DRAIN
ALT	ALTERNATE	GB	GRAB BAR	REF	REFRIGERATOR
ARCH	ARCHITECT(URAL)	GC	GENERAL CONTRACTOR	REIN	REINFORCED
BD	BOARD	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	REQD	REQUIRED
BDRM	BEDROOM	GWB	GYPSON BOARD	RH	RIGHT HAND
BET	BETWEEN	GYP	GYPSON	RM	ROOM
BIT	BITUMINOUS	HB	HOSE BIBB	RO	ROUGH OPENING
BLDG	BUILDING	HC	HOLLOW CORE	RTU	ROOF TOP UNIT (MECH)
BLKG	BLOCKING	HDWD	HARDWOOD	S	SOUTH
BLW	BELOW	HDWR	HARDWARE	SAFB	SOUND ATTENUATION FIBER BATT
BM	BEAM	HGT	HEIGHT	SAWP	SELF ADHERING WATERPROOFING
BOT	BOTTOM	HMT	HOLLOW METAL	SC	SCUPPER/SOLID CORE
BUR	BUILT UP ROOF	HORIZ	HORIZONTAL	SCHED	SCHEDULE
CB	CATCH BASIN	HVAC	HEATING, VENTILATION, A/C	SEAL	SEALANT
CBC	CALIFORNIA BUILDING CODE	ID	INSIDE DIAMETER	SECT	SECTION
CEM	CEMENT	IIC	IMPACT INSULATION CLASS	SF	SQUARE FOOT
CFM	CUBIC FEET PER MINUTE	IN	INCH	SHT	SHEET
CIP	CAST IN PLACE	INCAND	INCANDESCENT	SHTHG	SHEATHING
CJ	CONTROL JOINT	INSUL	INSULATION, INSULATED	SIM	SIMILAR
CL	CENTER LINE	INT	INTERIOR	SM	SHEET METAL
CLG	CEILING	JC	JANITORS CLOSET	SPEC	SPECIFICATION
CLO	CLOSET	JT	JOINT	SQ	SQUARE
CLR	CLEAR	LAM	LAMINATE	SS	SOLID SURFACE
CMU	CONCRETE MASONRY UNIT	LAV	LAVATORY	SSTL	STAINLESS STEEL
CO	CLEAN OUT	LBS	POUNDS	STC	SOUND TRANSMISSION CLASS
COL	COLUMN	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN	STD	STANDARD
CONC	CONCRETE	LF	LINEAR FEET	STL	STEEL
CONST	CONSTRUCTION	LIN	LINEN CLOSET	STOR	STORAGE
CONT	CONTINUOUS	LINO	LINOLEUM	STRUCT	STRUCTURAL
CONTR	CONTRACTOR	LT(G)	LIGHTING	SUSP	SUSPENDED
CPT	CARPET	LVL	LAMINATED VENEER LUMBER	SV	SHEET VINYL
CT	CERAMIC TILE	LVT	LUXURY VINYL TILE	SYM	SYMMETRICAL
CTR	CENTER	LW	LIGHTWEIGHT	T	TREAD
DBL	DOUBLE	MAX	MAXIMUM	T&G	TONGUE & GROOVE
DF	DRINKING FOUNTAIN	MDF	MEDIUM DENSITY FIBERBOARD	TEL	TELEPHONE
DIA	DIAMETER, DIAPHRAGM	MECH	MECHANICAL	TEMP	TEMPERED
DIM	DIMENSION	MEMB	MEMBRANE	TER	TERRAZZO
DN	DOWN	MEP	MECHANICAL, ELECTRICAL, PLUMBING	THK	THICK
DR	DOOR	MFR	MANUFACTURER	THR	THRESHOLD
DS	DOWN SPOUT	MIN	MINIMUM	TJI	TRUSS JOIST I-JOIST
DTL	DETAIL	MISC	MISCELLANEOUS	TO	TOP OF
DW	DISHWASHER	MO	MASONRY OPENING	TOS	TOP OF SLAB
DWG	DRAWING	MTD	MOUNTED	TOW	TOP OF WALL
(E)	EXISTING	MTL	METAL	TRANS	TRANSFORMER
E	EAST	N	NORTH	TV	TELEVISION
EA	EACH	NIC	NOT IN CONTRACT	TYP	TYPICAL
EJ	EXPANSION JOINT	NO	NUMBER	UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARDS
EL	ELEVATION	NOM	NOMINAL	UG	UNDERGROUND
ELEV	ELEVATION	NTS	NOT TO SCALE	UNFIN	UNFINISHED
ELEC	ELECTRIC	O.P.	OVERFLOW PIPE	UNO	UNLESS NOTED OTHERWISE
ENCL	ENCLOSURE	OC	ON CENTER	UV	ULTRAVIOLET
EQ	EQUAL	OD	OVERFLOW DRAIN	VCT	VINYL COMPOSITION TILE
EQUIP	EQUIPMENT	OFF	OFFICE	VERT	VERTICAL
EXH	EXHAUST	OH	OPPOSITE HAND	VIF	VERIFY IN FIELD
EXP	EXPANSION	OPC	OPENING	VTR	VENT TERMINATION PIPE
EXT	EXTERIOR	OPP	OPPOSITE	VWC	VINYL WALL COVERING
FACP	FIRE ALARM CONTROL PANEL	(P)	PROPOSED	W	WEST
FAU	FORCED AIR UNIT	PERM	PERIMETER	W/	WITH
FAWP	FLUID APPLIED WATERPROOFING	PERP	PERPENDICULAR	WD	WASHER DRYER
FD	FLOOR DRAIN	PG	PAINT GRADE	WO	WITHOUT
FDC	FIRE DEPARTMENT CONNECTION	PL	PLATE, PROPERTY LINE	WC	WATERCLOSET
FE	FIRE EXTINGUISHER	PLAM	PLASTIC LAMINATE	WD	WOOD
FEC	FIRE EXTINGUISHER CABINET	PLBG	PLUMBING	WDW	WINDOW
FF	FINISHED FLOOR ELEVATION	PLYWD	PLYWOOD	WH	WATER HEATER
FG	FINISHED GRADE	PNL	PANEL	WI	WROUGHT IRON
FH	FIRE HYDRANT	PP	POWER POLE	WIN	WINDOW
FHC	FIRE HOSE CABINET	PR	PAIR	WP	WATERPROOF(ING)
FIN	FINISH	PRTN	PARTITION	WR	WEATHER RESISTIVE
FIXT	FIXTURE	PSF	POUNDS PER SQUARE FOOT	WRB	WATER RESISTIVE BARRIER
FLR	FLOOR	PSI	POUNDS PER SQUARE INCH	WSCT	WAINSCOT
FLUOR	FLOURESCENT	PT	PRESSURE TREATED	WT	WEIGHT
FND	FOUNDATION	PTD	PAINTED	WWF	WELDED WIRE FABRIC
FO	FACE OF			YD	YARD
FOC	FACE OF CONCRETE				
FOF	FACE OF FINISH				

SYMBOLS



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CARPINTERIA ADU PROTOTYPES

SANTA BARBARA COUNTY, CA

GENERAL NOTES

DATE
0218/23

SHEET

G-102

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES (SHEET 1)



These plans are only to be used within City of Carpinteria jurisdiction. By using these standard plans ("ADU Plans") in accordance with the City of Carpinteria's Pre-Approved ADU Construction Plans Program, the User agrees to defend, indemnify, and hold harmless the City of Carpinteria and RRM from any and all claims, liabilities, suits, and demands on account of any injury, damage, or loss to persons or property, including injury or death, or economic losses, arising out of the use of these ADU Plans. The use of these ADU Plans does not eliminate or reduce the user's responsibility to verify any and all information herein.

CHAPTER 1 - ADMINISTRATION

SECTION 101 GENERAL

101.1 TITLE.
THESE REGULATIONS SHALL BE KNOWN AS THE CALIFORNIA GREEN BUILDING STANDARDS CODE AND MAY BE CITED AS SUCH AND WILL BE REFERRED TO HEREIN AS "THIS CODE". IT IS INTENDED THAT IT SHALL ALSO BE KNOWN AS THE CALGREEN CODE. THE CALIFORNIA GREEN BUILDING STANDARDS CODE IS PART 11 OF THIRTEEN PARTS OF THE OFFICIAL COMPILATION AND PUBLICATION OF THE ADOPTION, AMENDMENT AND REPEAL OF BUILDING REGULATIONS TO THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, ALSO REFERRED TO AS THE CALIFORNIA BUILDING STANDARDS CODE.

101.2 PURPOSE.
THE PURPOSE OF THIS CODE IS TO IMPROVE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE BY ENHANCING THE DESIGN AND CONSTRUCTION OF BUILDINGS THROUGH THE USE OF BUILDING CONCEPTS HAVING A REDUCED NEGATIVE IMPACT OR POSITIVE ENVIRONMENTAL IMPACT AND ENCOURAGING SUSTAINABLE CONSTRUCTION PRACTICES IN THE FOLLOWING CATEGORIES:
1. PLANNING AND DESIGN.
2. ENERGY EFFICIENCY.
3. WATER EFFICIENCY AND CONSERVATION.
4. MATERIAL CONSERVATION AND RESOURCE EFFICIENCY.
5. ENVIRONMENTAL QUALITY.

101.3 SCOPE.
THE PROVISIONS OF THIS CODE SHALL APPLY TO THE PLANNING, DESIGN, OPERATION, CONSTRUCTION, USE AND OCCUPANCY OF EVERY NEWLY CONSTRUCTED BUILDING OR STRUCTURE, UNLESS OTHERWISE INDICATED IN THIS CODE, THROUGHOUT THE STATE OF CALIFORNIA.

IT IS NOT THE INTENT THAT THIS CODE SUBSTITUTE OR BE IDENTIFIED AS MEETING THE CERTIFICATION REQUIREMENTS OF ANY GREEN BUILDING PROGRAM.

SECTION 102 CONSTRUCTION DOCUMENTS AND INSTALLATION VERIFICATION

102.1 SUBMITTAL DOCUMENTS.
CONSTRUCTION DOCUMENTS AND OTHER DATA SHALL BE SUBMITTED IN ONE OR MORE SETS WITH EACH APPLICATION FOR A PERMIT. WHERE SPECIAL CONDITIONS EXIST, THE ENFORCING AGENCY IS AUTHORIZED TO REQUIRE ADDITIONAL CONSTRUCTION DOCUMENTS TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL AND MAY BE SUBMITTED SEPARATELY.

EXCEPTION: THE ENFORCING AGENCY IS AUTHORIZED TO WAIVE THE SUBMISSION OF CONSTRUCTION DOCUMENTS AND OTHER DATA NOT REQUIRED TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL.

102.2 INFORMATION ON CONSTRUCTION DOCUMENTS.
CONSTRUCTION DOCUMENTS SHALL BE OF SUFFICIENT CLARITY TO INDICATE THE LOCATION, NATURE AND SCOPE OF THE PROPOSED GREEN BUILDING FEATURE AND SHOW THAT IT WILL CONFORM TO THE PROVISIONS OF THIS CODE, THE CALIFORNIA BUILDING STANDARDS CODE AND OTHER RELEVANT LAWS, ORDINANCES, RULES AND REGULATIONS AS DETERMINED BY THE ENFORCING AGENCY.

102.3 VERIFICATION.
DOCUMENTATION OF CONFORMANCE FOR APPLICABLE GREEN BUILDING MEASURES SHALL BE PROVIDED TO THE ENFORCING AGENCY. ALTERNATE METHODS OF DOCUMENTATION SHALL BE ACCEPTABLE WHEN THE ENFORCING AGENCY FINDS THAT THE PROPOSED ALTERNATE DOCUMENTATION IS SATISFACTORY TO DEMONSTRATE SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE PROPOSED GREEN BUILDING MEASURE.

CHAPTER 3 - GREEN BUILDING

SECTION 301 GENERAL

301.1 SCOPE.
BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE. VOLUNTARY GREEN BUILDING MEASURES ARE ALSO INCLUDED IN THE APPLICATION CHECKLISTS AND MAY BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF STRUCTURES COVERED BY THIS CODE, BUT ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN SECTION 101.7.

301.1.1 ADDITIONS AND ALTERATIONS. [HCD] THE MANDATORY PROVISIONS OF CHAPTER 4 SHALL BE APPLIED TO ADDITIONS OR ALTERATIONS OF EXISTING RESIDENTIAL BUILDINGS WHERE THE ADDITION OR ALTERATION INCREASES THE BUILDING'S CONDITIONED AREA, VOLUME, OR SIZE. THE REQUIREMENTS SHALL APPLY ONLY TO AND/OR WITHIN THE SPECIFIC AREA OF THE ADDITION OR ALTERATION.

THE MANDATORY PROVISIONS OF SECTION 4.106.4.2 MAY APPLY TO ADDITIONS OR ALTERATIONS OF EXISTING PARKING FACILITIES OR THE ADDITION OF NEW PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS. SEE SECTION 4.106.4.3 FOR APPLICATION.

NOTE: REPAIRS INCLUDING, BUT NOT LIMITED TO, RESURFACING, RESTRIPING, AND REPAIRING OR MAINTAINING EXISTING LIGHTING FIXTURES ARE NOT CONSIDERED ALTERATIONS FOR THE PURPOSE OF THIS SECTION.

301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS [HCD].
THE PROVISIONS OF INDIVIDUAL SECTIONS OF CALGREEN MAY APPLY TO EITHER LOW-RISE RESIDENTIAL BUILDINGS, HIGH-RISE RESIDENTIAL BUILDINGS, OR BOTH. INDIVIDUAL SECTIONS WILL BE DESIGNATED BY BANNERS TO INDICATE WHERE THE SECTION APPLIES SPECIFICALLY TO LOW-RISE ONLY (LR) OR HIGH-RISE ONLY (HR). WHEN THE SECTION APPLIES TO BOTH LOW-RISE AND HIGH-RISE BUILDINGS, NO BANNER WILL BE USED.

CHAPTER 4 - RESIDENTIAL MANDATORY MEASURES

DIVISION 4.1 PLANNING AND DESIGN

4.106 SITE DEVELOPMENT

4.106.1 GENERAL.
PRESERVATION AND USE OF AVAILABLE NATURAL RESOURCES SHALL BE ACCOMPLISHED THROUGH EVALUATION AND CAREFUL PLANNING TO MINIMIZE NEGATIVE EFFECTS ON THE SITE AND ADJACENT AREAS. PRESERVATION OF SLOPES, MANAGEMENT OF STORM WATER DRAINAGE AND EROSION CONTROLS SHALL COMPLY WITH THIS SECTION.

4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION
PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL, DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. IN ORDER TO MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF ADJACENT PROPERTY, PREVENT EROSION AND RETAIN SOIL RUNOFF ON THE SITE.

1. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON THE SITE.
2. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, COLLECTION POINT, GUTTER OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY.
3. COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT ORDINANCE.

4.106.3 GRADING AND PAVING
CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. EXAMPLES OF METHODS TO MANAGE SURFACE WATER INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. SWALES
2. WATER COLLECTION AND DISPOSAL SYSTEMS
3. FRENCH DRAINS
4. WATER RETENTION GARDENS
5. OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS AND AID IN GROUNDWATER RECHARGE.

EXCEPTIONS: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

4.106.4.2 NEW MULTIFAMILY DWELLINGS, HOTELS AND MOTELS AND NEW RESIDENTIAL PARKING FACILITIES

WHEN PARKING IS PROVIDED, PARKING SPACES FOR NEW MULTIFAMILY DWELLINGS, HOTELS AND MOTELS SHALL MEET THE REQUIREMENTS OF SECTIONS 4.106.4.2.1 AND 4.106.4.2.2. CALCULATIONS FOR SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER. A PARKING SPACE SERVED BY ELECTRIC VEHICLE SUPPLY EQUIPMENT OR DESIGNED AS A FUTURE EV CHARGING SPACE SHALL COUNT AS AT LEAST ONE STANDARD AUTOMOBILE PARKING SPACE ONLY FOR THE PURPOSE OF COMPLYING WITH ANY APPLICABLE MINIMUM PARKING SPACE REQUIREMENTS ESTABLISHED BY A LOCAL JURISDICTION. SEE VEHICLE CODE SECTION 22511.2 FOR FURTHER DETAILS.

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

4.201.1 SCOPE.
FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY STANDARDS.

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS
PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

4.303.1.1 WATER CLOSETS
THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK TYPE TOILET.

NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

4.303.1.2 URINALS
THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. THE EFFECTIVE FLUSH VOLUME OF ALL OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

4.303.1.3 SHOWERHEADS

4.303.1.3.1 SINGLE SHOWERHEAD
SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER
WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

NOTE: A HAND HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

4.303.1.4 FAUCETS

4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS
THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 80 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.

4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS
THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.

4.303.1.4.3 METERING FAUCETS
METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS SHALL NOT DELIVER MORE THAN 0.2 GALLONS PER CYCLE.

4.303.1.4.4 KITCHEN FAUCETS

THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

4.303.3 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS
PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.

NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1 AND IS INCLUDED AS A CONVENIENCE FOR THE USER.

TABLE - MAXIMUM FIXTURE WATER USE	
FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 80 PSI MIN. 0.8 GPM @ 20 PSI
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.2 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH
URINALS	0.125 GAL/FLUSH

4.304 OUTDOOR WATER USE

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 RODENT PROOFING
ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY LOCOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

4.408.1 CONSTRUCTION WASTE MANAGEMENT
RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH EITHER SECTION 4.408.2, 4.408.3, OR 4.408.4, OR MEET A MORE STRINGENT LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE.

- EXCEPTIONS:**
1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS.
 2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST OR ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE.
 3. THE ENFORCING AGENCY MAY MAKE ACCEPTATIONS TO THE REQUIREMENTS OF THIS SECTION WHEN ISOLATED JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN
SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN IN CONFORMANCE WITH ITEMS 1 THROUGH 5. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.

1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.
4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
5. SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

4.408.3 WASTE MANAGEMENT COMPANY.
UTILIZE A WASTE MANAGEMENT COMPANY, APPROVED BY THE ENFORCING AGENCY, WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH SECTION 4.408.1.

NOTE: THE OWNER OR CONTRACTOR MAY MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]
PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS, WHICH DO NOT EXCEED 3.4 POUNDS PER SQUARE FOOT OF THE BUILDING AREA SHALL MEET THE MINIMUM 65 PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.
PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS, WHICH DO NOT EXCEED 2 POUNDS PER SQUARE FOOT OF THE BUILDING AREA, SHALL MEET THE MINIMUM 65-PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.

4.408.5 DOCUMENTATION
DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 4.408.2, ITEMS 1 THROUGH 5, SECTION 4.408.3 OR SECTION 4.408.4.

- NOTES:**
1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (RESIDENTIAL)" LOCATED AT WWW.HCD.CA.GOV/CALGREEN.HTML MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THIS SECTION.
 2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE).

CARPINTERIA ADU PROTOTYPES
 SANTA BARBARA COUNTY, CA
CAL GREEN REQUIREMENTS

DATE
02/18/23

SHEET

G-201

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES (SHEET 2)



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4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 OPERATION AND MAINTENANCE MANUAL

AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING:

- DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
- OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
 - EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGERS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT.
 - ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
 - SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
 - LANDSCAPE IRRIGATION SYSTEMS.
 - WATER REUSE SYSTEMS.
- INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
- PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
- EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
- INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.
- INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
- INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING.
- INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
- A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.
- INFORMATION FROM CAL FIRE ON MAINTENANCE OF DEFENSIBLE SPACE AROUND RESIDENTIAL STRUCTURES.
- INFORMATION AND/OR DRAWINGS IDENTIFYING THE LOCATION OF GRAB BAR REINFORCEMENTS.

DIVISION 4.5 ENVIORNMENTAL QUALITY

4.501 GENERAL

4.501.1 SCOPE

THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS.

4.503 FIREPLACES

4.503.1 GENERAL

ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.

4.504 POLLUTANT CONTROL

4.504.1 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION

AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

4.504.2 FINISH MATERIAL POLLUTANT CONTROL

FINISH MATERIALS SHALL COMPLY WITH THIS SECTION.

4.504.2.1 ADHESIVES, SEALANTS AND CAULKS

ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS UNLESS MORE STRINGENT LOCAL OR REGIONAL AIR POLLUTION OR AIR QUALITY MANAGEMENT DISTRICT RULES APPLY.

- ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS, AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLE 4.504.1 OR 4.504.2, AS APPLICABLE. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED IN SUBSECTION 2 BELOW.
- AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

4.504.2.2 PAINTS AND COATINGS

ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 4.504.3, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3 SHALL APPLY.

4.504.2.3 AEROSOL PAINTS AND COATINGS

AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

4.504.2.4 VERIFICATION

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:

- MANUFACTURER'S PRODUCT SPECIFICATION.
- FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

4.504.3 CARPET SYSTEMS

4.504.3.1 CARPET CUSHION

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.

[HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDCPPH/DEODCEHLBIAQ/PAGES/VOC.ASPX](https://www.cdph.ca.gov/Programs/CCDCPPH/DEODCEHLBIAQ/PAGES/VOC.ASPX)

4.504.3.2 CARPET ADHESIVE

ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.4.

4.504.4 RESILIENT FLOORING SYSTEMS

WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.

[HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDCPPH/DEODCEHLBIAQ/PAGES/VOC.ASPX](https://www.cdph.ca.gov/Programs/CCDCPPH/DEODCEHLBIAQ/PAGES/VOC.ASPX)

4.504.5 COMPOSITE WOOD PRODUCTS

HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.) AS SHOWN IN TABLE 4.504.5.

4.504.5.1 DOCUMENTATION

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING:

- PRODUCT CERTIFICATIONS AND SPECIFICATIONS.
- CHAIN OF CUSTODY CERTIFICATIONS.
- PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, ET SEQ.).
- EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN AS/NZS 2269, EUROPEAN 636 3S, AND CANADIAN CSA 0121, CSA O151, CSA O153 AND CSA O325 STANDARDS.
- OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

TABLE 4.504.1 - ADHESIVE VOC LIMIT

(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOORING ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
IVCT AND ASPHALT TILE ADHESIVES	50
DRYWALL AND PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50

SPECIALTY APPLICATIONS	CURRENT VOC LIMIT
PVC WELDING	510
CPVC WELDING	490
ABD WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP AND TRIM ADHESIVES	250
SUBSTRATE SPECIFIC APPLICATIONS	CURRENT VOC LIMIT
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

- IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
- FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

TABLE 4.504.2 - SEALANT VOC LIMIT

(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	CURRENT VOC LIMIT
ARCHITECTURAL	
NONPOROUS	250
POROUS	250
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2, 3}

(GRAMS OF VOC PER LITER OF COATING, LESS WATER AND LESS EXEMPT COMPOUNDS)

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	CURRENT VOC LIMIT
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ¹	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, AND UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLAC	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB AND TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

- GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND INCLUDING EXEMPT COMPOUNDS.
- THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEBRUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

TABLE 4.504.5 - FORMALDEHYDE LIMITS¹

(MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION)

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLEBOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD ²	0.13

- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
- THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8MM).

DIVISION 4.5 ENVIORNMENTAL QUALITY CONTINUED

4.505 INTERIOR MOISTURE CONTROL

4.505.1 GENERAL

BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS CODE.

4.505.2 CONCRETE SLAB FOUNDATIONS

CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA BUILDING CODE CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA RESIDENTIAL CODE, CHAPTER 5, SHALL ALSO COMPLY WITH THIS SECTION.

4.505.2.1 CAPILLARY BREAK

A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

- A 4-INCH-THICK (101.6 MM) BASE OF 1/2 INCH (12.7 MM) OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED. FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE INSTITUTE, ACI 302.2R-06.
- OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.
- A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.

4.505.3 MOISTURE CONTENT OF A BUILDING

BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19-PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING:

- MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHODS MAY BE APPROVED BY THE ENFORCING AGENCY AND SHALL SATISFY REQUIREMENTS FOUND IN SECTION 101.03 OF THIS CODE.
- MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET (610 MM) TO 4 FEET (1219 MM) FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED.
- AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL AND FLOOR FRAMING.

INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

4.506 INDOOR AIR QUALITY AND EXHAUST

4.506.1 BATHROOM EXHAUST FANS

EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:

- FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
- UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
 - HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
 - A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E., BUILT-IN).

NOTES:

- FOR THE PURPOSES OF THIS SECTION, A BATHROOM IS A ROOM WHICH CONTAINS A BATHTUB, SHOWER, OR TUB/ SHOWER COMBINATION.
- LIGHTING INTEGRAL TO BATHROOM EXHAUST FANS SHALL COMPLY WITH THE CALIFORNIA ENERGY CODE.

4.507 ENVIORNMENTAL COMFORT

4.507.1 RESERVED

4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN

HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:

- THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J—2016 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D—2016 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S—2016 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

EXCEPTION: USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO ENSURE THE SYSTEMS FUNCTION ARE ACCEPTABLE.

CHAPTER 7 - INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- STATE CERTIFIED APPRENTICESHIP PROGRAMS.
- PUBLIC UTILITY TRAINING PROGRAMS.
- TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS.
- PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS.
- OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

702.2 SPECIAL INSPECTION [HCD]

WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION TO OTHER CERTIFICATIONS OR QUALIFICATIONS ACCEPTABLE TO THE ENFORCING AGENCY, THE FOLLOWING CERTIFICATIONS OR EDUCATION MAY BE CONSIDERED BY THE ENFORCING AGENCY WHEN EVALUATING THE QUALIFICATIONS OF A SPECIAL INSPECTOR:

- CERTIFICATION BY A NATIONAL OR REGIONAL GREEN BUILDING PROGRAM OR STANDARD PUBLISHER.
- CERTIFICATION BY A STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATION, SUCH AS HERS RATERS, BUILDING PERFORMANCE CONTRACTORS, AND HOME ENERGY AUDITORS.
- SUCCESSFUL COMPLETION OF A THIRD PARTY APPRENTICE TRAINING PROGRAM IN THE APPROPRIATE TRADE.
- OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

NOTES:

- SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.
- HERS RATERS ARE SPECIAL INSPECTORS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION (CEC) TO RATE HOMES IN CALIFORNIA ACCORDING TO THE HOME ENERGY RATING SYSTEM (HERS).

[BSC] WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL BE DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION, THE SPECIAL INSPECTOR SHALL HAVE A CERTIFICATION FROM A RECOGNIZED STATE, NATIONAL OR INTERNATIONAL ASSOCIATION, AS DETERMINED BY THE LOCAL AGENCY. THE AREA OF CERTIFICATION SHALL BE CLOSELY RELATED TO THE PRIMARY JOB FUNCTION, AS DETERMINED BY THE LOCAL AGENCY.

NOTES:

- SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

703 VERIFICATIONS

703.1 DOCUMENTATION

DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED APPLICABLE CHECKLIST.

CARPINTERIA ADU PROTOTYPES

SANTA BARBARA COUNTY, CA

CAL GREEN REQUIREMENTS

DATE

02/18/23

SHEET

G-202



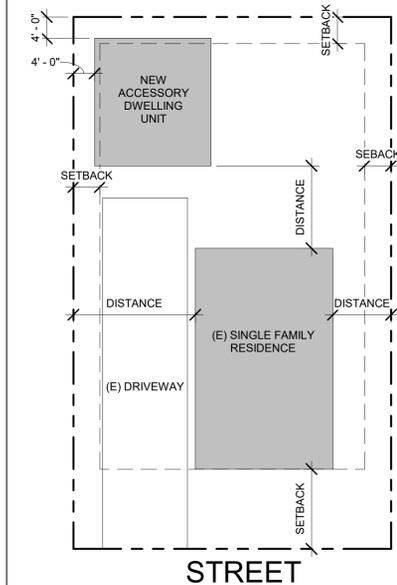
These plans are only to be used within City of Carpinteria jurisdiction. By using these standard plans ("ADU Plans") in accordance with the City of Carpinteria's Pre-Approved ADU Construction Plans Program, the User agrees to defend, indemnify, and hold harmless the City of Carpinteria and RRM from any and all claims, liabilities, suits, and demands on account of any injury, damage, or loss to persons or property, including injury or death, or economic losses, arising out of the use of these ADU Plans. The use of these ADU Plans does not eliminate or reduce the user's responsibility to verify any and all information herein.

SITE PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
- REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
- CONTRACTOR TO REVIEW PLANS TO AVOID CONFLICTS WITH UTILITIES, I.E. METER LOCATIONS, ELECTRIC TRANSFORMER, BACKFLOW PREVENTERS, SEWER LINES AND ELECTRIC CONDUIT (POLE LIGHTING AT DRIVEWAY), ETC.
- CONTRACTOR TO VERIFY ALL CONDITIONS AND UTILITY LOCATIONS AND IS RESPONSIBLE FOR LOCATING UTILITIES NOT SHOWN ON THE DRAWINGS.
- CONTRACTOR TO AVOID DISTURBING OR DAMAGING EXISTING UTILITIES.
- CALL BEFORE YOU DIG OR CAUSE ANY GROUND DISTURBANCES.
- LIMIT CONSTRUCTION AREA TO THAT INDICATED ON THE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO AREAS OUTSIDE OF DESIGNATED CONSTRUCTION AREA.
- COORDINATE ELECTRICAL REQUIREMENTS WITH PG&E.
- FOR PROJECT INFORMATION DATA, SEE TITLE SHEET
- ENCROACHMENT PERMIT IS REQ. FOR ANY WORK DONE WITHIN THE RIGHT OF WAYS.
- PER CRC R311.3 FLOORS OR LANDINGS AT EXTERIOR DOORS SHALL BE AT LEAST AS WIDE AS DOOR SERVED AND SHALL PROVIDE A LENGTH IN THE DIRECTION OF TRAVEL EQUAL TO 36 INCHES MINIMUM. SLOPE OF EXTERIOR LANDINGS SHALL NOT EXCEED 1/4" PER FOOT (2% SLOPE).
- METER SIZE AND SCE APPLICATION NUMBER TO BE PROVIDED ON PLANS.

SITE PLAN CHECKLIST

- DRAWING SCALE**
SITE PLAN SHOULD BE DRAWN TO A MEASURABLE SCALE.
- PROPERTY LINES**
SHOW OUTLINE OF PROPERTY USING DASHED LINE IN LEGEND
- LABEL YARDS**
LABEL FRONT, REAR, SIDE YARDS, AS WELL AS DRIVEWAYS, PATHWAYS AND ANY OTHER HARDSCAPE.
- SETBACKS**
DIMENSION THE DISTANCE BETWEEN BUILDINGS AND PROPOERTY LINES, AS WELL AS BUILDINGS TO OTHER STRUCTURES. (SETBACKS TO PROPERTY LINE OR OTHER STRUCTURES SHALL BE 4' MINIMUM)
- EASEMENTS (IF APPLICABLE)**
REFER TO LEGEND. MAY INCLUDE UTILITY R.O.W.
- LOCATION OF EXISTING UTILITIES**
UTILITIES, POLES, SWERE DRAINS, ELECTRICAL, GAS METERS AND LINES AND ANY PHOTOVOLTATIC.
- LABEL STREETS & SIDEWALKS**
- LABEL ADU AND ADDRESS LOCATION**
ADU WILL HAVE SAME ADDRESS AS THE PRIMARY RESIDENCE, AND THE LETTER SHALL BE VISIBLE FROM THE STREET.
- FOOTPRINT OF EXISTING BUILDING**
THIS INCLUDES ALL STRUCUTRES/PORCHES/GAZEBOS
- FOOTPRINT OF PROPOSED ADU**
REFER TO LEGEND FOR FOOTPRINT AT 10'=1" SCALE
- DIMENSION BUILDING SEPARATION**
DIMENSION THE DISTANCE BETWEEN THE PROPOSED ADU AND ANY EXISTING STRUCTURES
- PROVIDE GRADE ELEVATIONS**
ALL GRADE ELEVATIONS, EXISTING AND PROPOSED, AND INDICATE BY ARROWS THE LOCATIONS AND METHOD OF DISPOSAL OF ROOF AND SURFACE WATER.
- PROVIDE GRADE ELEVATIONS**
ALL GRADE ELEVATIONS, EXISTING AND PROPOSED, AND INDICATE BY ARROWS THE LOCATIONS AND METHOD OF DISPOSAL OF ROOF AND SURFACE WATER.



1 EXAMPLE SITE PLAN
A1-201AS-101 1/16" = 1'-0"

SITE PLAN LEGEND

- PROPERTY LINE
- SETBACK
- EASTMENT
- CONCRETE PAVING
- LANDSCAPE AREA, REFER TO LANDSCAPE DRAWINGS.



SITE PLAN (TO BE PROVIDED BY APPLICANT)

SCALE:

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
ARCHITECTURAL SITE PLAN

DATE
0218/23
SHEET
AS-101



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PLAN 1 -PERSPECTIVE - CALIFORNIA RANCH



PLAN 1 -PERSPECTIVE - COASTAL COTTAGE

CARPINTERIA ADU PROTOTYPES

SANTA BARBARA COUNTY, CA

PERSPECTIVES

DATE
0218/23

SHEET

A1-100



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FINISH PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
- REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
- REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
- REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES AND INTERIOR FINISH DETAILS.
- ALL HARD SURFACE FLOORING SHALL BE SLIP RESISTANT AND MEET THE **ANSI A326.3** STANDARD FOR MEASURING THE DYNAMIC COEFFICIENT OF FRICTION (DCOF).
- ALL FLOORING MATERIALS SHALL COMPLY WITH **2022 CBC SEC. 804.1**.
- ALL WALL AND CEILING FINISHES SHALL COMPLY WITH **2022 CBC TABLE 803.13** FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY.

FINISH SCHEDULE

FINISH SCHEDULE					
NUMBER	NAME	FLOOR	CEILING	BASE	NOTES
101	BED	LVT	GWB	WD	
102	BATH	CT	GWB	WD	
103	KIT./DIN.	LVT	GWB	WD	
105	LIVING	LVT	GWB	WD	

FINISH LEGEND

- LUXURY VINYL PLANK
- CERAMIC TILE
- CONCRETE

LEGEND

- EXTERIOR - 5 1/2" WOOD STUD W/ PLYWOOD SHEATHING AND STUCCO, ONE LAYER GYPSUM WALL BOARD INTERIOR.
- INTERIOR - 5 1/2" WOOD STUD W/ ONE LAYER GYPSUM WALL BOARD EACH SIDE.

DOOR SCHEDULE

NO.	TYPE	DOOR		REMARKS
		WIDTH	HEIGHT	
10	A	3' - 0"	6' - 8"	
11	A	2' - 6"	6' - 8"	
12	A	2' - 6"	6' - 8"	
13	B	6' - 0"	6' - 8"	

DOOR LEGEND

- A. SOLID CORE WOOD.
- B. DOUBLE SLIDING INTERIOR.
- C. SLIDING GLASS EXTERIOR.

DOOR GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS.
- REFER TO PLANS FOR LOCATION OF DOORS.
- VERIFY ROUGH OPENING SIZE WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY ACTUAL DOOR SIZE TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
- FIRE RATED DOORS SHALL BE SOLID WOOD OR SOLID HONEYCOMB CORE STEEL DOOR 1-3/8" THICK OR COMPLIANT WITH **2022 CRC SECTION R302.5.1**. DOORS SHALL BE SELF-CLOSING AND SELF-LATCHING WITH WEATHER STRIPPING TO BE TIGHT FITTING.
- GLAZING IN DOORS SHALL BE TEMPERED PER **SECTION R308.4.1**.
- PROVIDE A LANDING EQUAL TO THE WIDTH OF THE DOOR OR STAIR AND A LENGTH IN THE DIRECTION OF TRAVEL EQUAL TO 36 IN. **CRC R311.3**

DOOR REMARKS

- GLAZING PER DOOR TYPES. TEMPERED.
- PROVIDE 100 SQ INCHES OF VENTING IN DOOR OR BY OTHER APPROVED MEANS.
- OPTIONAL DOOR.
- OPTIONAL GLAZING IN DOOR. TEMPERED (BOTH PANES).



1 PLAN 1 - FINISH PLAN

A1-201/A1-101 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 AND G-102 FOR ADDITIONAL REQUIREMENTS.
- REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
- REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.
- REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER INFORMATION.
- REFER TO PLUMBING PLANS OR DRAWINGS FOR FURTHER INFORMATION IF PROVIDED.
- ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR COORDINATION PURPOSES ONLY.
- DIMENSIONS ARE TO FACE OF FRAMING UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
- PROVIDE FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS
- DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS
- WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A ROOM IT SHALL BE 4" FROM FACE OF FRAMING OF ADJACENT WALL TO ROUGH DOOR OPENING
- PROVIDE A LANDING EQUAL TO THE WIDTH OF THE DOOR OR STAIR AND A LENGTH IN THE DIRECTION OF TRAVEL EQUAL TO 36 IN. **CRC R311.3**
- WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED
- AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING
- GLAZING IN ANY PORTION OF A BUILDING OF A BUILDING WALL ENCLOSING SHOWERS OR TUBS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A STANDING SURFACE OR DRAIN INLET SHALL BE TEMPERED GLASS. **CRC R308.4 No. 5**

KEYNOTES

- A01 30" WIDE FREE STANDING ELECTRIC RANGE OVEN. VENT TO EXTERIOR.
- A02 30" EXHAUST HOOD.
- A05 REFRIGERATOR LOCATION. PROVIDE 32" SPACE WITH ROUGH PLUMBING FOR ICE MAKER (RECESS IN WALL).
- B02 PEDESTAL SINK. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS.
- B04 LAVATORY SINK. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS.
- B05 WATER CLOSET. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS.
- B06 32" x 60" x 72" TUB AND SHOWER COMBINATION. MODEL BY BUILDER. WATER RESISTENT FINISH TO EXTEND TO 72" ABOVE FLOOR. SHOWER DOOR IF APPLICABLE TO BE TEMPERED GLASS.
- C01 SINGLE WOOD SHELF AND POLE.
- C07 24" DEEP FULL 36" TALL BASE CABINET AND COUNTERTOP.
- C08 12" DEEP UPPER CABINET
- C12 34 1/2" HIGH BASE CABINET AND COUNTERTOP.

WINDOW GENERAL NOTES

- REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.
- CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES PRIOR TO FABRICATION OF ROUGH OPENINGS.
- REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC AND ADDITIONAL WINDOW REQUIREMENTS.
- ALL GLAZING IS DOUBLE PANE UNLESS OTHERWISE NOTED.
- EGRESS WINDOWS SHALL HAVE A CLEAR OPENING WITH A MAX. SILL HEIGHT OF 44" AFF. MIN. NET CLEAR OPENING FOR EMERGENCY ESCAPE SHALL BE 5.7 S.F. EXCEPT: 5 S.F. MIN. AT GROUND FLOOR. MINIMUM NET CLEAR OPENING DIMENSIONS: HEIGHT: 24"; WIDTH: 20". **2022 CRC SEC. R310.2**
- EACH SLEEPING ROOM SHALL HAVE A DOOR DIRECTLY TO THE EXTERIOR OR A WINDOW THAT WILL PROVIDE A CLEAR SPACE OPENING OF AT LEAST 5.7 SQUARE FEET IN THE OPEN POSITION, AND A MINIMUM CLEAR OPENING WIDTH OF 20 INCHES AND CLEAR OPENING HEIGHT OF 24 INCHES AND A MAXIMUM SILL HEIGHT OF 44" ABOVE THE FINISHED FLOOR. SLEEPING ROOMS AT GRADE FLOOR LEVEL MAY HAVE A CLEAR SPACE OPENING OF 5 SQUARE FEET. **CRC R310.1, 310.1.1, 310.1.2**

WINDOW REMARKS

- REQUIRED EGRESS WINDOW. REFER TO WINDOW GENERAL NOTE #5 FOR ADDITIONAL INFORMATION.
- WINDOW INCLUDES BOTH PANES TEMPERED GLAZING.

WINDOW SCHEDULE

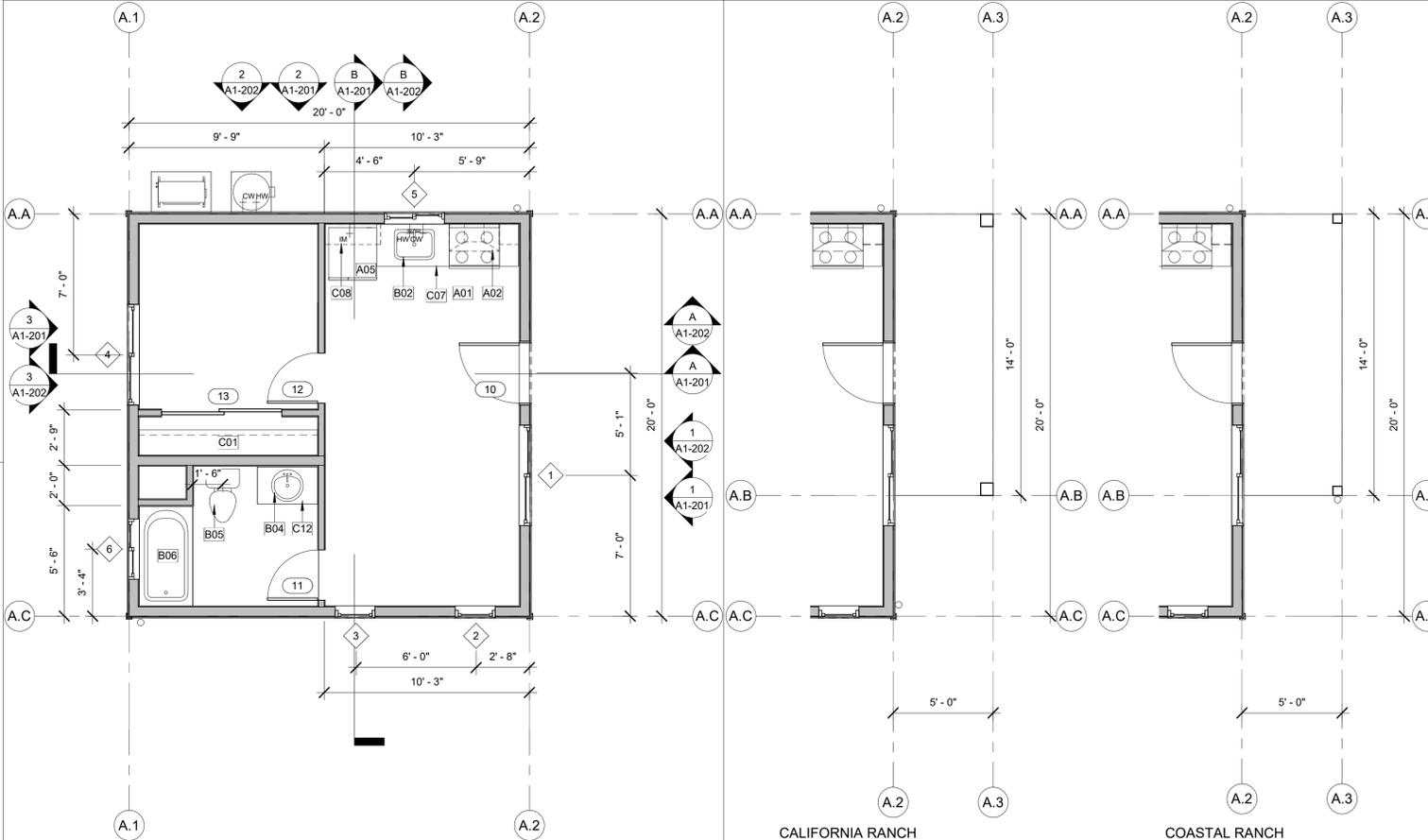
NO.	TYPE	SIZE		HEAD HEIGHT	REMARKS
		WIDTH	HEIGHT		
1	B	5' - 0"	4' - 0"	6' - 8"	2
2	A	2' - 0"	4' - 0"	6' - 8"	
3	A	2' - 0"	4' - 0"	6' - 8"	2
4	B	5' - 0"	4' - 0"	6' - 8"	1
5	B	3' - 0"	3' - 0"	6' - 8"	2
6	B	3' - 0"	1' - 6"	6' - 8"	

PLAN 1 - LIGHT & VENTILATION CALCULATION

Name	Area	LIGHT %	LIGHT REQUIRED	LIGHT PROVIDED	VENT %	VENT REQUIRED	VENT PROVIDED
KIT/DIN/LIV	184 SF	8	15	31	4	8	18
BEDROOM	82 SF	8	7	15	4	4	8

WINDOW LEGEND

- A. SINGLE HUNG.
- B. SLIDER.



2 PLAN 1 - FLOOR PLAN

A1-201/A1-101 1/4" = 1'-0"

3 PLAN 1 - PORCH OPTIONS.

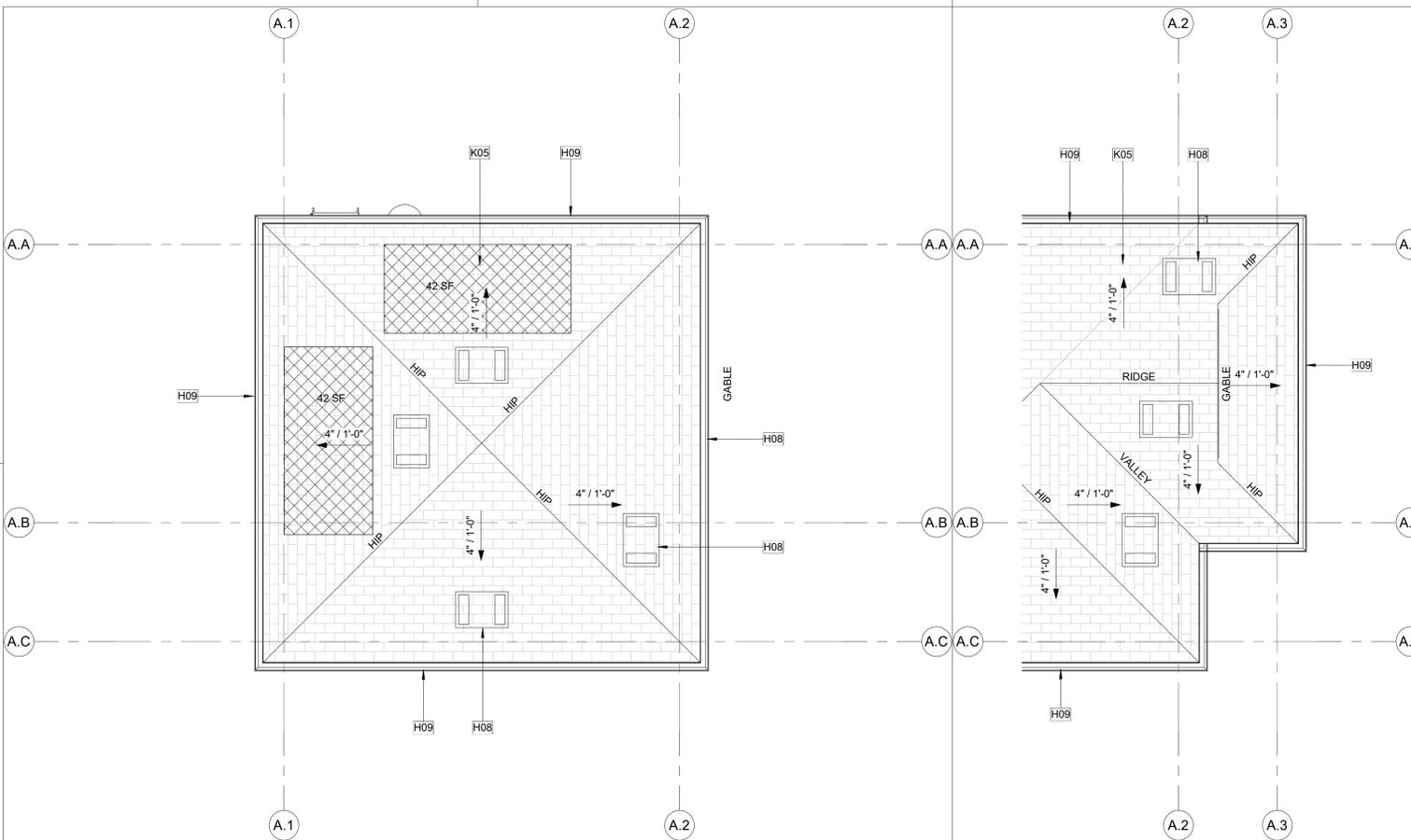
A1-201/A1-101 1/4" = 1'-0"

CALIFORNIA RANCH

COASTAL RANCH



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2 PLAN 1 - ROOF PLAN - CALIFORNIA RANCH
A1-201/A1-121 1/4" = 1'-0"

1 PLAN 1 - PORCH OPTION
A1-201/A1-121 1/4" = 1'-0"

ROOF PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS
- REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
- PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION AND ROOF SHEATHING.
- WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
- ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECS.
- OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE.
- ROOF VENTS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ADJUST AS NEEDED TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

ROOF VENTING CALCULATIONS

UPPER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE
72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF

LOWER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE
72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF

"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)

ATTIC	AREA	REQUIRED ATTIC VENTING (NFA)	UPPER VENTING REQUIRED (NFA)	LOWER VENTING REQUIRED (NFA)
ATTIC - PLAN 1	436 SF	1.45 SF	0.73 SF	0.73 SF

WUI ROOF NOTES

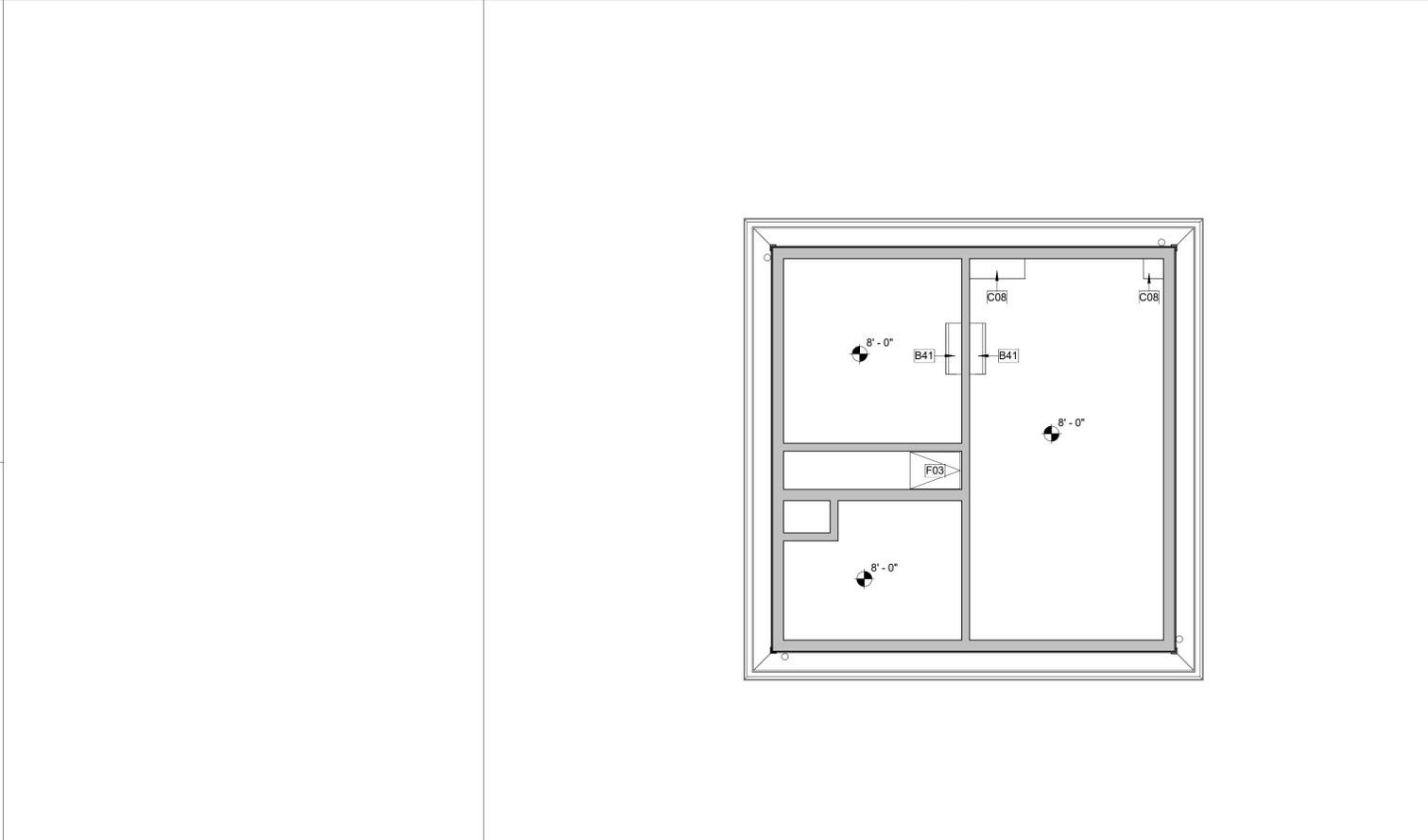
- ALL ROOFING SHALL BE CLASS A RATED
- BLOCK ANY SPACES BETWEEN ROOF DECKING AND COVERING.
- REMOVE ACCUMULATED DEBRI ON ROOF TOP
- COVER ALL VENT OPENINGS WITH 1/16" TO 1/8" METAL MESH SCREEN.
- REFER TO PLUMBING PLANS FOR ROOF VENT PENETRATION
- VENTS SHALL BE METAL. DO NOT USE PLASTIC OR FIBERGLASS.
- USE EMBER FLAME RESISTANT (W/U) VENTS
- MAINTAIN RAIN GUTTERS TO PREVENT ACCUMULATION OF DEBRI.

KEYNOTES

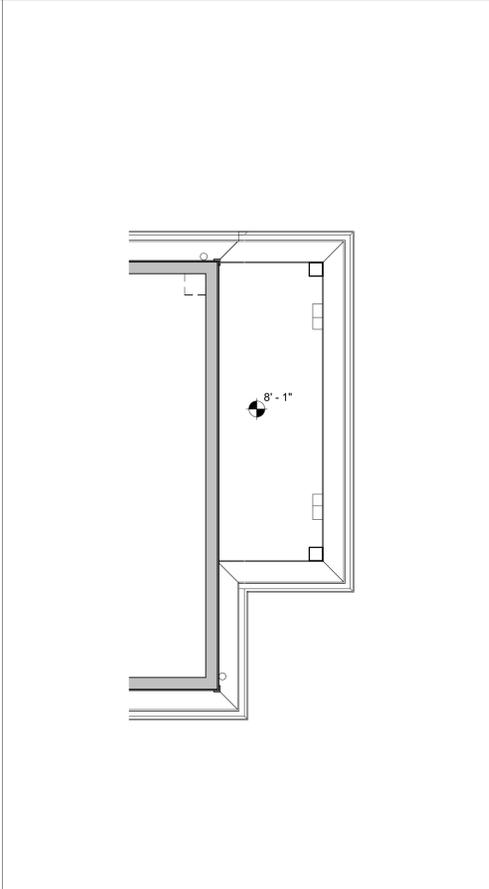
- B41** FAN COIL. REFER TO PLANS FOR LOCATION OF OUTDOOR CONDENSING UNIT. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE OUTLET.
- C08** 12" DEEP UPPER CABINET
- F03** 30" X 30" MIN. ATTIC ACCESS. PROVIDED SWITCH AND OUTLET AT ATTIC FOR FAU. PERMANENTLY ATTACH R-38 OR GREATER INSULATION TO ATTIC ACCESS DOOR USING ADHESIVE OR MECHANICAL FASTENERS CENc 150.0 (a)1. PROVIDE GASKETED ATTIC ACCESS TO PREVENT AIR LEAKAGE CENc 150.0 (a)1.

LEGEND

- 10'-0" HEIGHT OF TOP OF ROOFING SURFACE
- 2" / 12" ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- O'HAGIN ATTIC VENT. PAINT TO MATCH ROOF COLOR. (REFER TO EXTERIOR ELEVATIONS FOR COLORS AND MATERIALS.)
- WALL BELOW
- GUTTER, CONNECT TO DOWNSPOUT
- DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O.
- FUTURE SOLAR ZONE. REFER TO SOLAR READY NOTES ON SHEET G-101.



3 PLAN 1 - REFLECTED CEILING PLAN - CALIFORNIA RANCH
A1-201/A1-121 1/4" = 1'-0"



4 PLAN 1 - PORCH OPTION
A1-201/A1-121 1/4" = 1'-0"

RCP GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 AND G-102 FOR ADDITIONAL REQUIREMENTS.
- REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
- REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
- REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
- HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, UNO. 7' 0" MINIMUM CEILING IN HABITABLE SPACES AND HALLWAYS. **CRC R305.1**
- CONTRACTOR TO VERIFY DEPTH OF SOFFITS AND HOLD TIGHT TO PLUMBING, SPRINKLERS, ELECTRICAL AND MECHANICAL DUCTS
- SEE MECHANICAL DRAWINGS FOR MECH. ACCESS PANELS. PAINT TO MATCH CEILING
- AT DROPPED GWB SOFFITS/GWB BEAMS, PROVIDE C-STUDS AS VERTICAL SUPPORTS AT EACH SIDE OF THE SOFFIT/BEAM AND DIAGONAL BRACING FOR WRACKING. IF CEILING JOIST SPACING DIFFERS FROM FLOOR THEN BLOCKING BETWEEN THE FLOOR FRAMING MAY BE UTILIZED TO ATTACH THE
- ALL LIGHT FIXTURES ARE TO BE INSTALLED ACCORDING TO THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
- SEE ELECTRICAL PLANS FOR LIGHTING LOCATIONS AND SPECIFICATIONS, AND EXIT SIGN LOCATIONS.

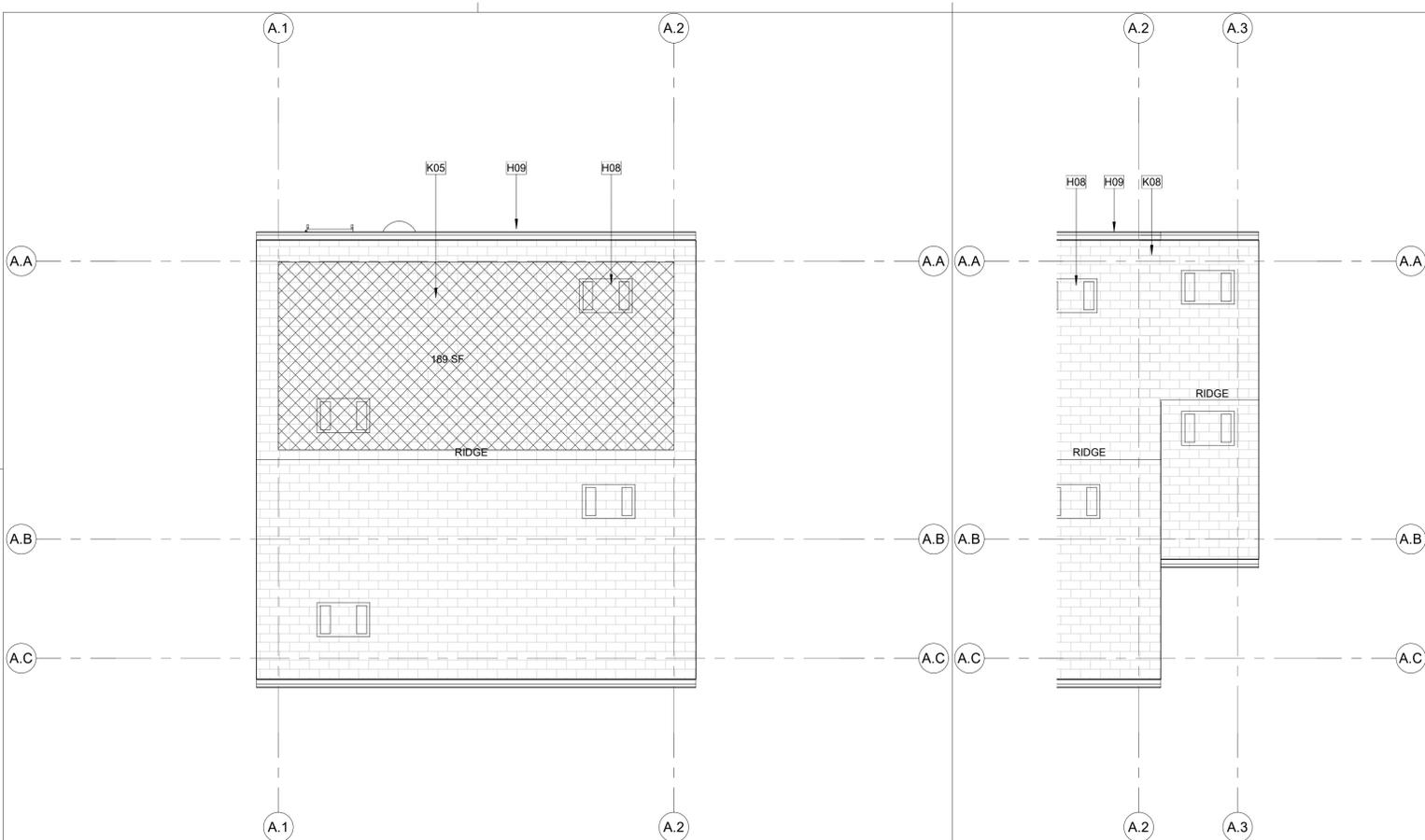
LEGEND

- XX'-X" CEILING HEIGHT (SEE PLAN FOR ACTUAL HEIGHTS)
- INTERIOR - GYPSUM BOARD CEILING
- INTERIOR - GYPSUM BOARD SOFFIT
- INTERIOR - ACOUSTICAL TILE CEILING
- EXTERIOR - CEMENT PLASTER SOFFIT
- MECHANICAL EQUIPMENT, REFER TO MECHANICAL PLANS
- LIGHT FIXTURE, REFER TO ELECTRICAL PLANS

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
ROOF PLANS & REFLECTED CEILING PLANS - CALIFORNIA RANCH



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2 PLAN 1 - ROOF PLAN - COASTAL COTTAGE
A1-201/A1-122 1/4" = 1'-0"

1 PLAN 1 - PORCH OPTION
A1-201/A1-122 1/4" = 1'-0"

ROOF PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS
2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
3. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION AND ROOF SHEATHING.
4. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
5. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECS.
6. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE.
7. ROOF VENTS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ADJUST AS NEEDED TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

WUI ROOF NOTES

1. ALL ROOFING SHALL BE CLASS A RATED
2. BLOCK ANY SPACES BETWEEN ROOF DECKING AND COVERING.
3. REMOVE ACCUMULATED DEBRIS ON ROOF TOP
4. COVER ALL VENT OPENINGS WITH 1/16" TO 1/8" METAL MESH SCREEN.
5. REFER TO PLUMBING PLANS FOR ROOF VENT PENETRATION.
6. VENTS SHALL BE METAL. DO NOT USE PLASTIC OR FIBERGLASS.
7. USE EMBER A FLAME RESISTANT (WUI) VENTS
8. MAINTAIN RAIN GUTTERS TO PREVENT ACCUMULATION OF DEBRIS.

KEYNOTES

- B41** FAN COIL. REFER TO PLANS FOR LOCATION OF OUTDOOR CONDENSING UNIT. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE OUTLET.
- C08** 12" DEEP UPPER CABINET
- F03** 30" X 30" MIN. ATTIC ACCESS. PROVIDED SWITCH AND OUTLET AT ATTIC FOR FAU. PERMANENTLY ATTACH R-38 OR GREATER INSULATION TO ATTIC ACCESS DOOR USING ADHESIVE OR MECHANICAL FASTENERS CEN-C 180.0 (a)1. PROVIDE GASKETED ATTIC ACCESS TO PREVENT AIR LEAKAGE CEN-C 150.0 (a)1.

ROOF VENTING CALCULATIONS

UPPER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE
72.0 SQ. IN. OF AIR MOVEMENT PER VENT = 72. SQ. IN. / 144 = 0.5 SF

LOWER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE
72.0 SQ. IN. OF AIR MOVEMENT PER VENT = 72. SQ. IN. / 144 = 0.5 SF

"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)

ATTIC	AREA	REQUIRED ATTIC VENTING (NFA)	UPPER VENTING REQUIRED (NFA)	LOWER VENTING REQUIRED (NFA)
ATTIC - PLAN 1	436 SF	1.45 SF	0.73 SF	0.73 SF

VENT TYPE	COUNT	VENT LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
LOWER O'HAGIN SHINGLE ROOF VENT (LOWER)	3	2' - 8"	0.50 SF	1.50 SF
UPPER O'HAGIN SHINGLE ROOF VENT (UPPER)	3	2' - 8"	0.50 SF	1.50 SF
				1.50 SF

LEGEND

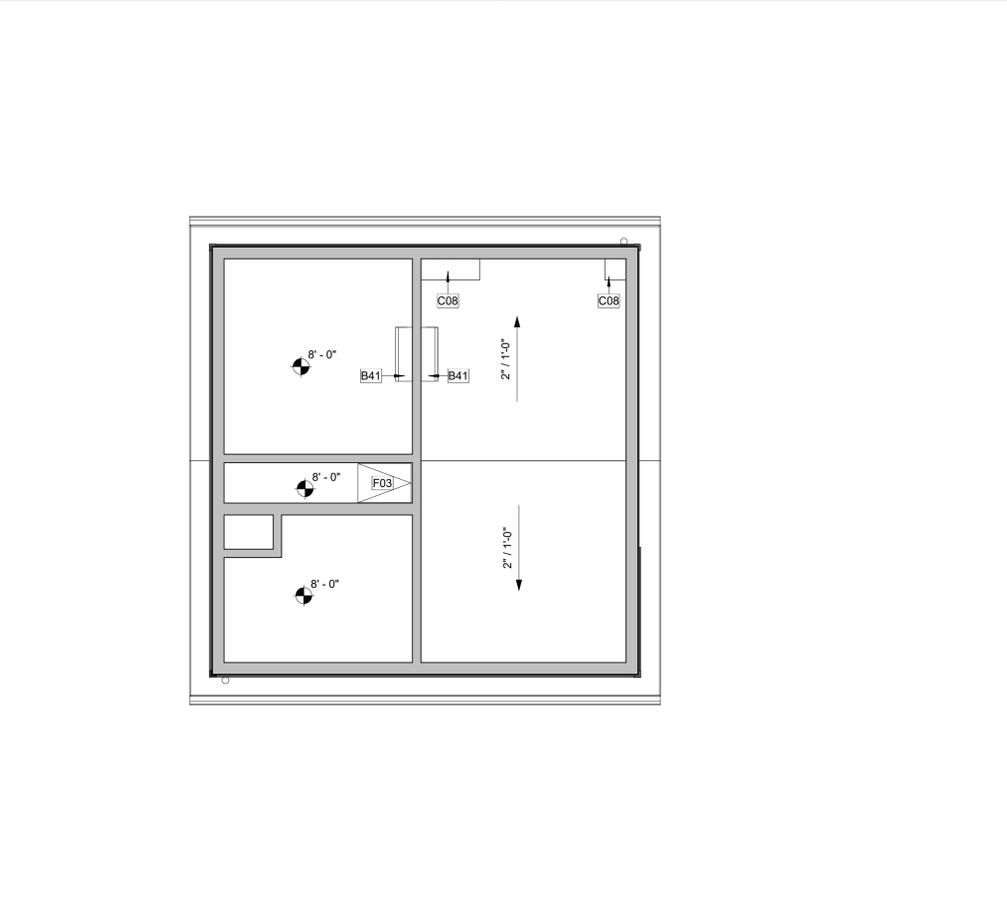
- 10'-0" HEIGHT OF TOP OF ROOFING SURFACE
- 2' / 12" ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- O'HAGIN ATTIC VENT, PAINT TO MATCH ROOF COLOR. (REFER TO EXTERIOR ELEVATIONS FOR COLORS AND MATERIALS.)
- WALL BELOW
- GUTTER, CONNECT TO DOWNSPOUT
- DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O.
- FUTURE SOLAR ZONE. REFER TO SOLAR READY NOTES ON SHEET G-101.

RCP GENERAL NOTES

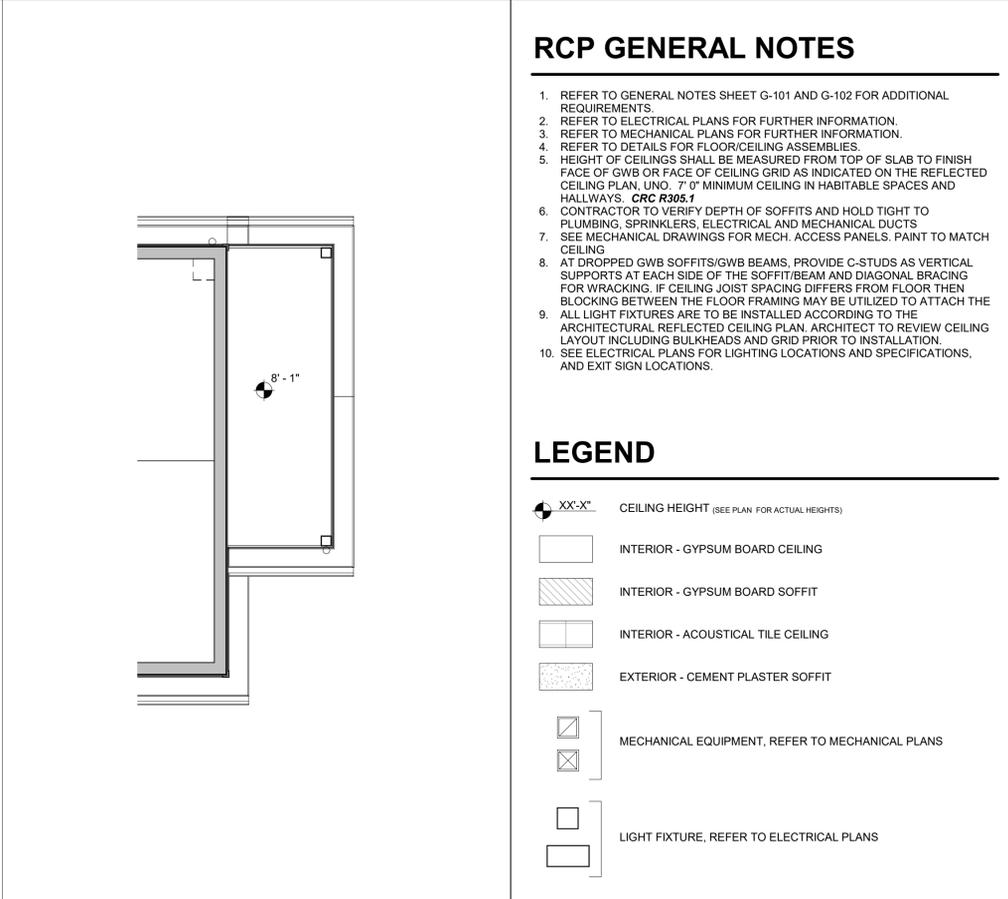
1. REFER TO GENERAL NOTES SHEET G-101 AND G-102 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
5. HEIGHT OF CEILING SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, UNO. 7' 0" MINIMUM CEILING IN HABITABLE SPACES AND HALLWAYS. **CRC R305.1**
6. CONTRACTOR TO VERIFY DEPTH OF SOFFITS AND HOLD TIGHT TO PLUMBING, SPRINKLERS, ELECTRICAL AND MECHANICAL DUCTS
7. SEE MECHANICAL DRAWINGS FOR MECH. ACCESS PANELS. PAINT TO MATCH CEILING
8. AT DROPPED GWB SOFFITS/GWB BEAMS, PROVIDE C-STUDS AS VERTICAL SUPPORTS AT EACH SIDE OF THE SOFFIT/BEAM AND DIAGONAL BRACING FOR WRACKING. IF CEILING JOIST SPACING DIFFERS FROM FLOOR THEN BLOCKING BETWEEN THE FLOOR FRAMING MAY BE UTILIZED TO ATTACH THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
9. ALL LIGHT FIXTURES ARE TO BE INSTALLED ACCORDING TO THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
10. SEE ELECTRICAL PLANS FOR LIGHTING LOCATIONS AND SPECIFICATIONS, AND EXIT SIGN LOCATIONS.

LEGEND

- XX'-X" CEILING HEIGHT (SEE PLAN FOR ACTUAL HEIGHTS)
- INTERIOR - GYPSUM BOARD CEILING
- INTERIOR - GYPSUM BOARD SOFFIT
- INTERIOR - ACOUSTICAL TILE CEILING
- EXTERIOR - CEMENT PLASTER SOFFIT
- MECHANICAL EQUIPMENT, REFER TO MECHANICAL PLANS
- LIGHT FIXTURE, REFER TO ELECTRICAL PLANS



3 PLAN 1 - REFLECTED CEILING PLAN - COASTAL COTTAGE
A1-201/A1-122 1/4" = 1'-0"



4 PLAN 1 - PORCH OPTION
A1-201/A1-122 1/4" = 1'-0"

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
ROOF PLANS & REFLECTED CEILING PLANS - COASTAL COTTAGE



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GENERAL ELEVATION NOTES

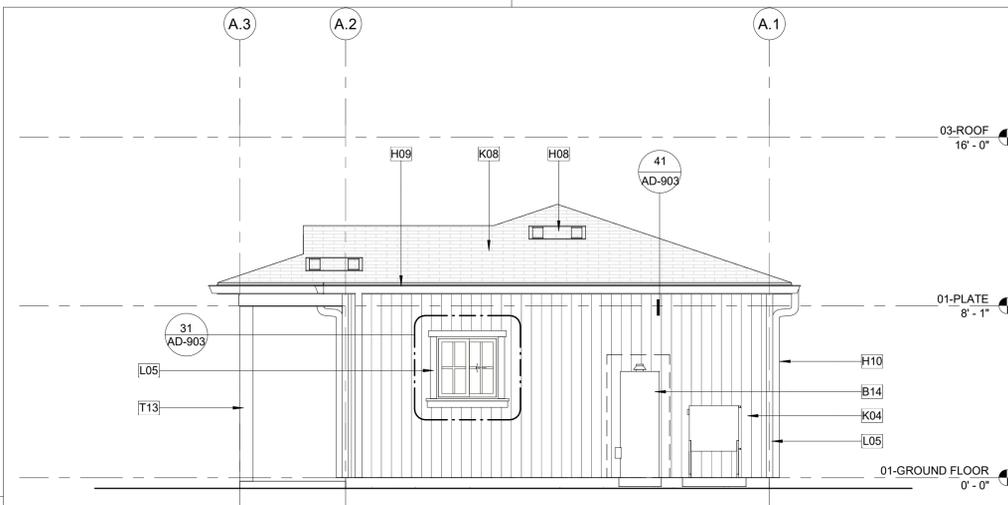
1. REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS
2. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. REFER TO ROOF PLAN FOR OVERHANGS, FASCIA PER DETAILS. PROVIDE ALUMINUM GUTTER. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS. UNQ.
4. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
5. THE NOMINAL THICKNESS AND ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH CRC TABLE R703.3(1).
6. EXTERIOR PLASTER (STUCCO) INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF CRC R703.7 AND COMPLIANCE WITH ASTM C926 AND ASTM C1063. STANDARD SPECIFICATIONS FOR INSTALLATION OF LATHING AND FURRING TO RECEIVE INTERIOR AND EXTERIOR PORTLAND CEMENT-BASED PLASTER, INCLUDING INSTALLATION OF CONTROL JOINTS.
7. GYPSUM SHEATHING SHALL BE ATTACHED TO EXTERIOR WALLS IN ACCORDANCE WITH CRC TABLE R602.3.
8. CLADDING ATTACHMENT OVER FOAM SHEATHING TO WOOD FRAMING IN ACCORDANCE WITH CRC R703.15. REFER TO CRC R703.8 FOR ANCHORED MASONRY OR STONE VENEER INSTALLED OVER FOAM SHEATHING.

KEYNOTES

- B14 50 GALLON TANK TYPE ELECTRIC WATER HEATER. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION. 3" MIN. ABOVE GRADE. STRAPPING DETAIL S11AD-902. PROVIDE WHETHER PROOF ENCLOSURE AT EXTERIOR LOCATIONS
- B38 MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION. 3" MIN. ABOVE GRADE.
- H08 ATTIC VENT. PAINT FINISH TO MATCH ROOF COLOR. REFER TO COLORS AND MATERIALS.
- H09 GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R327.5.4
- H10 DOWNSPOUT
- K04 FIBER CEMENT BOARD AND BATTEN SIDING, IN COMPLIANCE WITH 2019 CRC R337
- K08 CLASS A ASPHALT COMPOSITE ROOF SHINGLES. GAF TIMBERLINE HD OR APPROVED EQUAL.
- L02 2x8 FIBER CEMENT FASCIA.
- L05 1x4 FIBER CEMENT TRIM.
- S03 ROOF INSULATION. REFER TO TITLE 24 (R-19 MIN.)
- S04 2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.)
- T02 2X6 WOOD STUD WALL. REFER TO STRUCTURAL.
- T13 8x8 POST, REFER TO STRUCTURAL
- T18 WINDOW PER SCHEDULE.
- T19 DOOR PER SCHEDULE.
- U02 WOOD TRUSS. REFER TO STRUCTURAL.
- U06 CONCRETE SLAB FOUNDATION

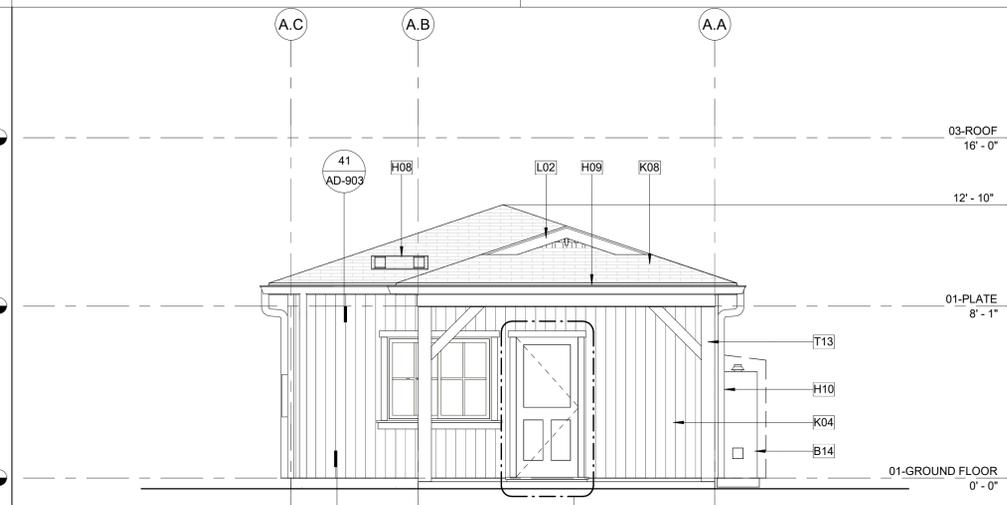
LEGEND

-  3-COAT CEMENT PLASTER (COLOR TO MATCH PRIMARY RESIDENCE)
-  CEMENTITIOUS LAP SIDING (COLOR AND WIDTH TO MATCH PRIMARY RESIDENCE)
-  CEMENTITIOUS BOARD AND BATTEN SIDING (COLOR TO MATCH PRIMARY RESIDENCE)



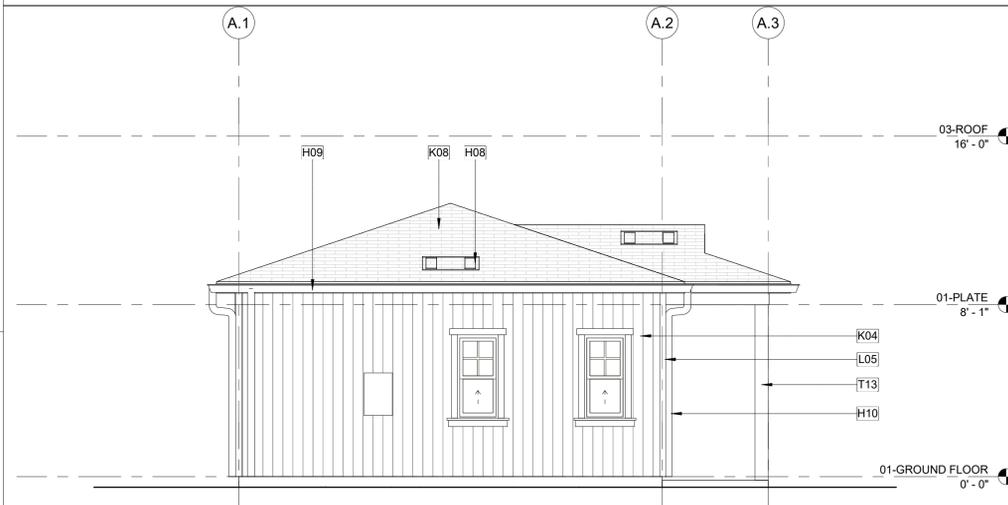
2 PLAN 1 - RIGHT - CALIFORNIA RANCH

A1-101/A1-201 1/4" = 1'-0"



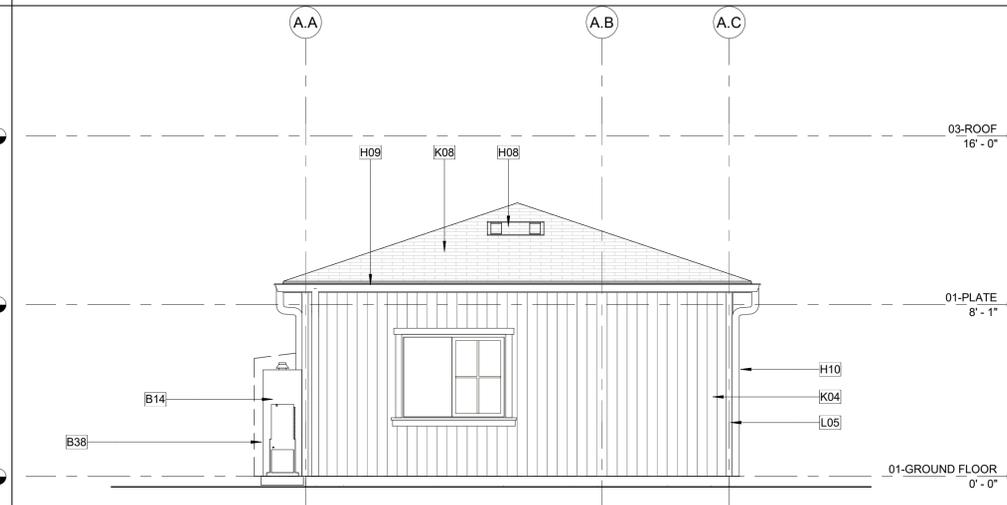
1 PLAN 1 - FRONT - CALIFORNIA RANCH

A1-101/A1-201 1/4" = 1'-0"



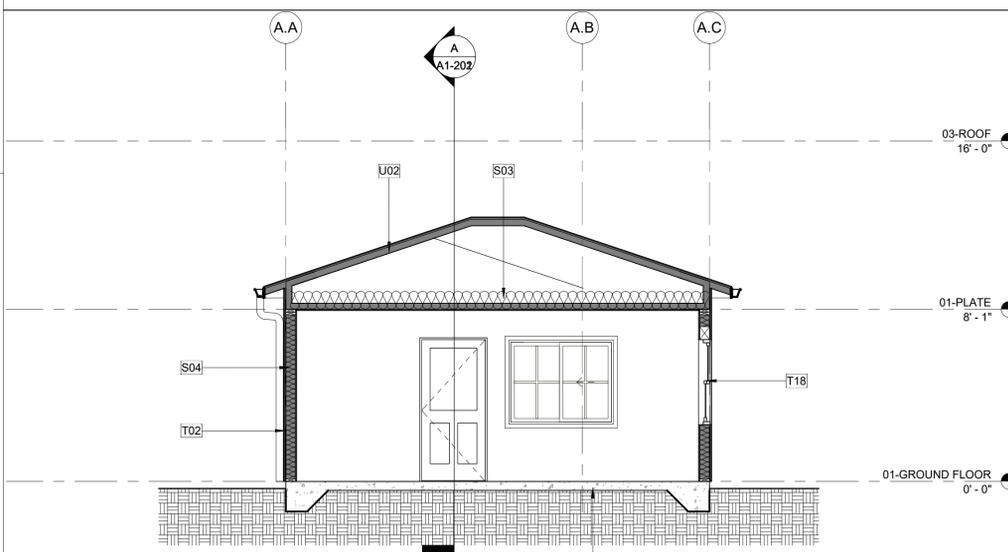
4 PLAN 1 - LEFT - CALIFORNIA RANCH

A1-101/A1-201 1/4" = 1'-0"



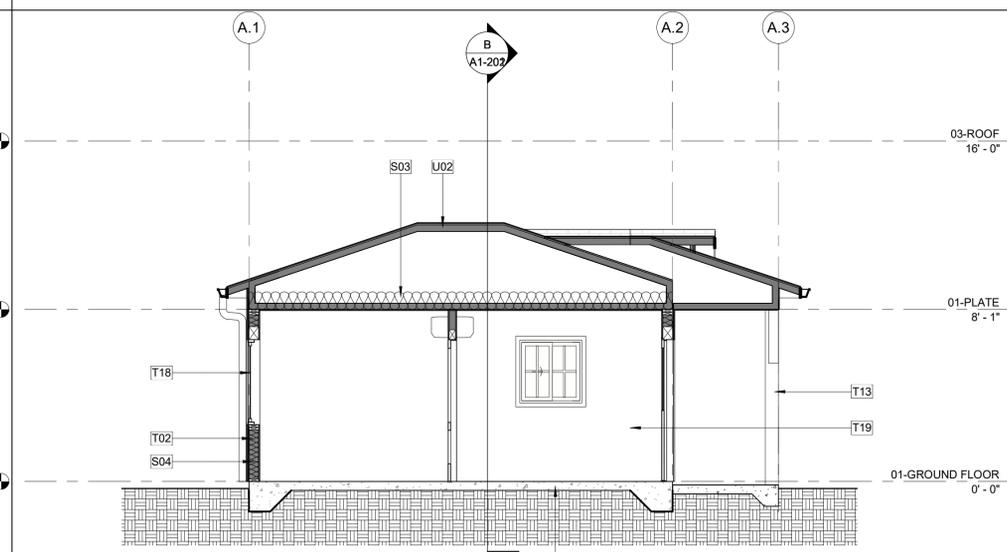
3 PLAN 1 - REAR - CALIFORNIA RANCH

A1-101/A1-201 1/4" = 1'-0"



B PLAN 1 - SECTION B

A1-101/A1-201 1/4" = 1'-0"



A PLAN 1 - SECTION A

A1-101/A1-201 1/4" = 1'-0"

CARPINTERIA ADU PROTOTYPES
 SANTA BARBARA COUNTY, CA
 EXTERIOR ELEVATIONS &
 BUILDING SECTIONS -
 CALIFORNIA RANCH

DATE
02/18/23
SHEET

A1-201



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GENERAL ELEVATION NOTES

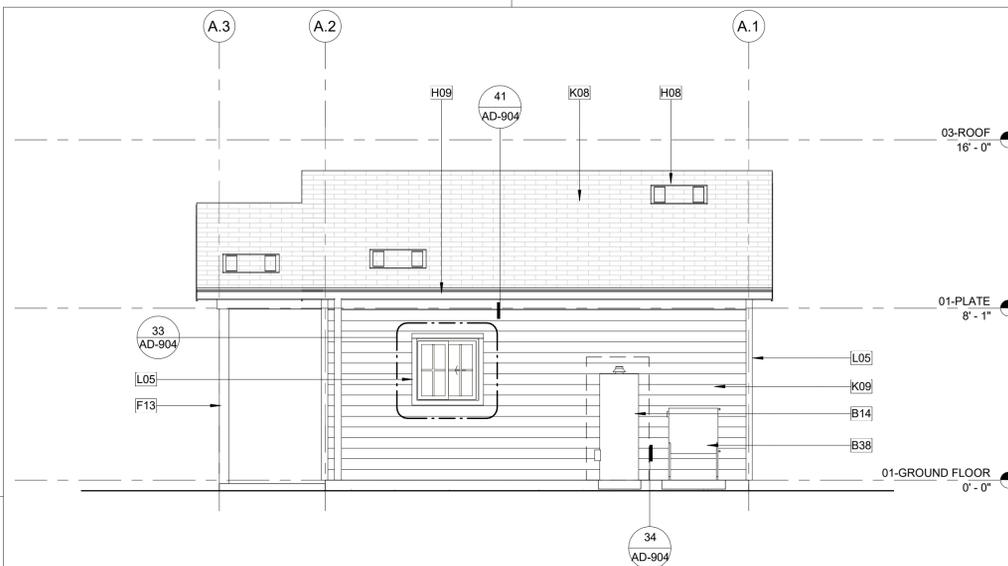
1. REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS
2. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. REFER TO ROOF PLAN FOR OVERHANGS, FASCIA PER DETAILS. PROVIDE ALUMINUM GUTTER. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS. UNQ.
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KEYNOTES

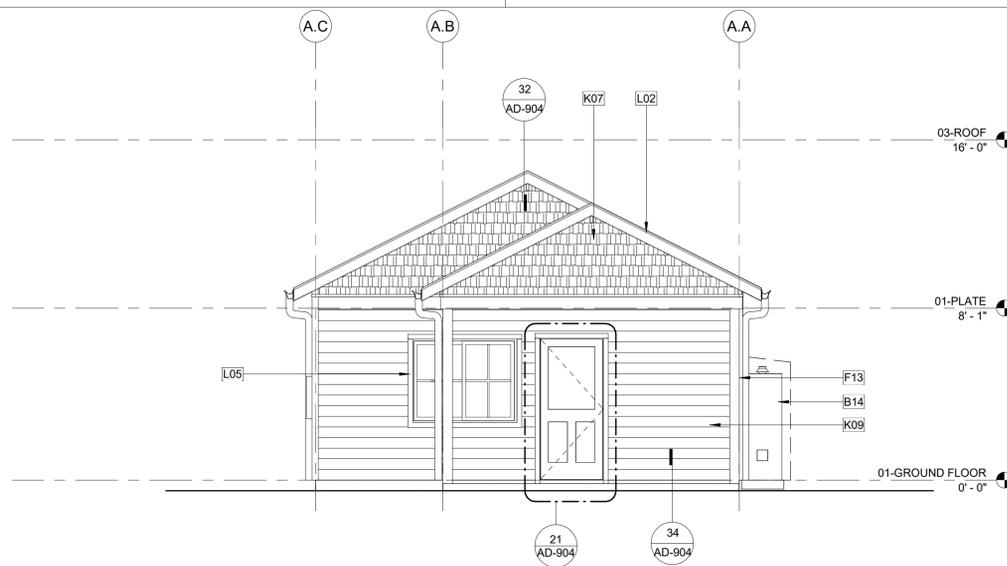
- B14 50 GALLON TANK TYPE ELECTRIC WATER HEATER. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION. 3" MIN. ABOVE GRADE. STRAPPING DETAIL S1/AD-902. PROVIDE WHETHER PROOF ENCLOSURE AT EXTERIOR LOCATIONS
- B38 MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION. 3" MIN. ABOVE GRADE. DUCTLESS HEAT PUMP. INDOOR UNIT. REFER TO T24 REPORT FOR ADDITIONAL INFORMATION.
- B42 DUCTLESS HEAT PUMP. INDOOR UNIT. REFER TO T24 REPORT FOR ADDITIONAL INFORMATION.
- F13 6X6 WOOD POST
- H08 ATTIC VENT. PAINT FINISH TO MATCH ROOF COLOR. REFER TO COLORS AND MATERIALS.
- H09 GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R327.5.4
- K07 FIBER CEMENT SHINGLE SIDING. REFER TO COLOR SCHEME ON COLOR MATERIALS BOARD ON SHEET G-110 & G-111.
- K08 CLASS A ASPHALT COMPOSITE ROOF SHINGLES. GAF TIMBERLINE HD OR APPROVED EQUAL.
- K09 FIBER CEMENT HORIZONTAL SIDING, IN COMPLIANCE WITH 2019 CRC R337
- L02 2x8 FIBER CEMENT FASCIA.
- L05 1x4 FIBER CEMENT TRIM.
- L07 1x10 FIBER CEMENT TRIM. PRIME ALL SIDES.
- S03 ROOF INSULATION. REFER TO TITLE 24 (R-19 MIN.).
- S04 2X8 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.).
- T14 6x6 POST, REFER TO STRUCTURAL
- T15 6x10 WOOD BEAM, REFER TO STRUCTURAL PLANS
- T18 WINDOW PER SCHEDULE.
- T19 DOOR PER SCHEDULE.
- U02 WOOD TRUSS. REFER TO STRUCTURAL.
- U06 CONCRETE SLAB FOUNDATION
- U11 WOOD BEAM / HEADER, REFER TO STRUCTURAL.

LEGEND

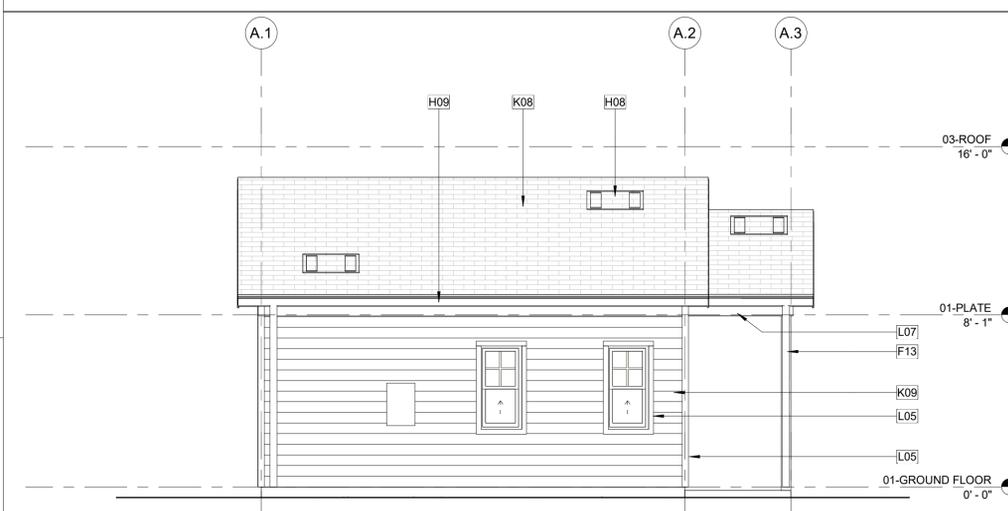
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-  CEMENTITIOUS LAP SIDING (COLOR AND WIDTH TO MATCH PRIMARY RESIDENCE)
-  CEMENTITIOUS BOARD AND BATTEN SIDING (COLOR TO MATCH PRIMARY RESIDENCE)



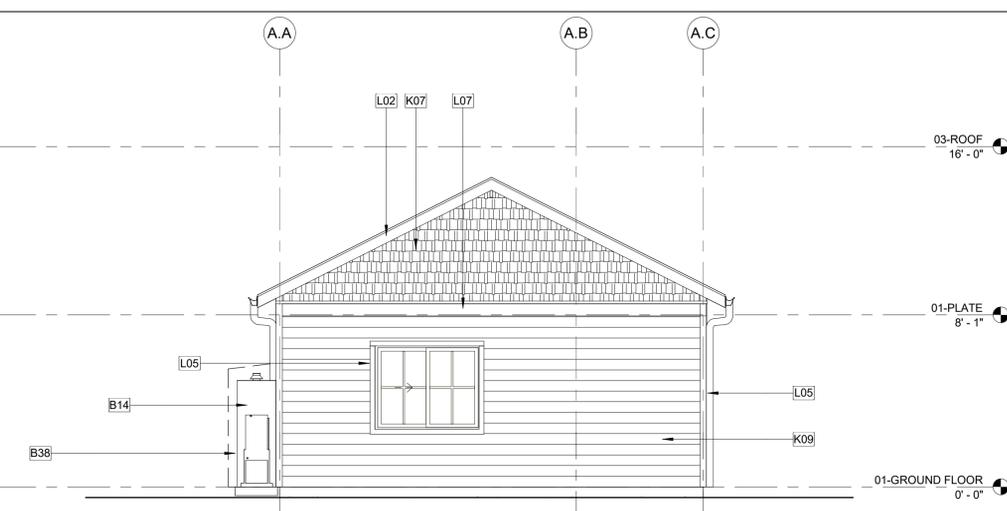
2 PLAN 1 - RIGHT - COASTAL COTTAGE
A1-101/A1-202 1/4" = 1'-0"



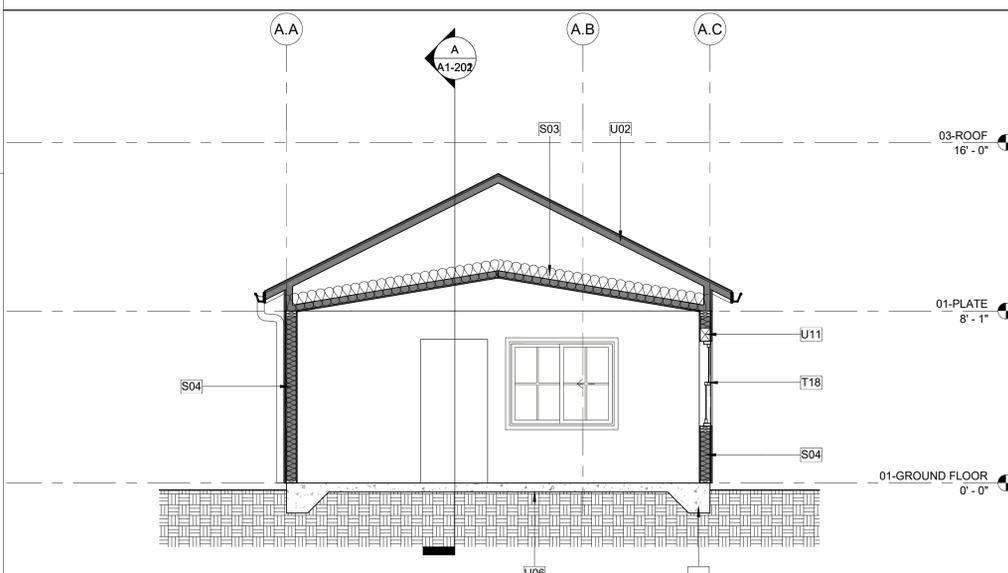
1 PLAN 1 - FRONT - COASTAL COTTAGE
A1-101/A1-202 1/4" = 1'-0"



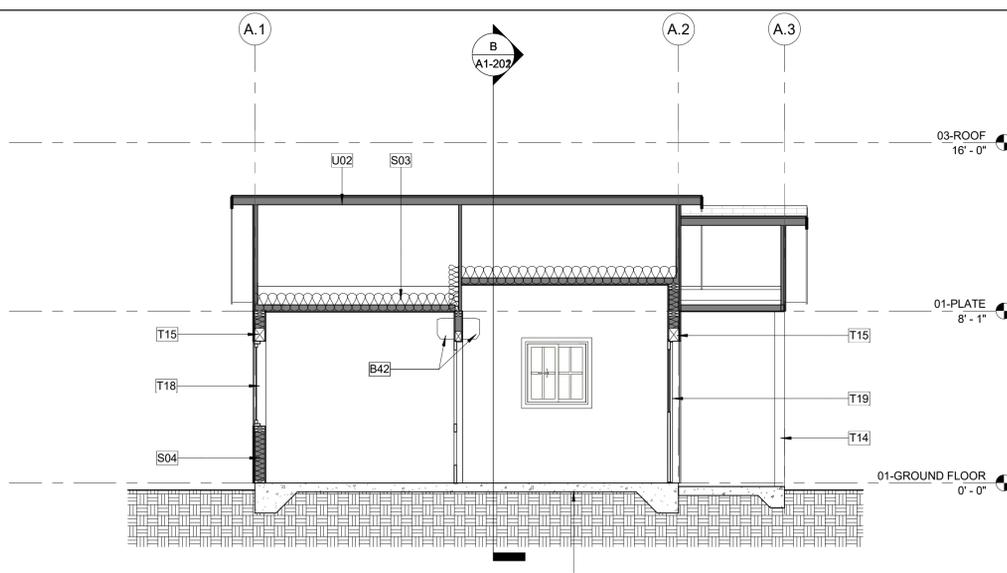
4 PLAN 1 - LEFT - COASTAL COTTAGE
A1-101/A1-202 1/4" = 1'-0"



3 PLAN 1 - REAR - COASTAL COTTAGE
A1-101/A1-202 1/4" = 1'-0"



B PLAN 1 - SECTION B
A1-101/A1-202 1/4" = 1'-0"



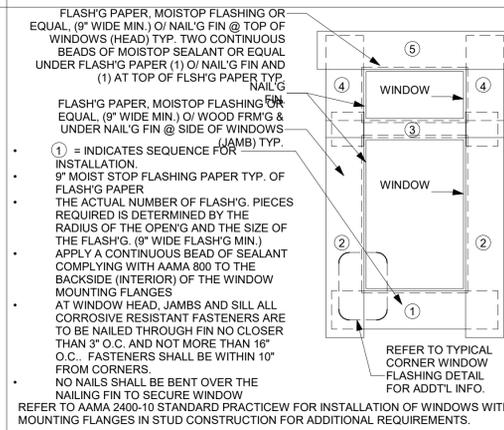
A PLAN 1 - SECTION A
A1-101/A1-202 1/4" = 1'-0"

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
EXTERIOR ELEVATIONS &
BUILDING SECTIONS - COASTAL
COTTAGE

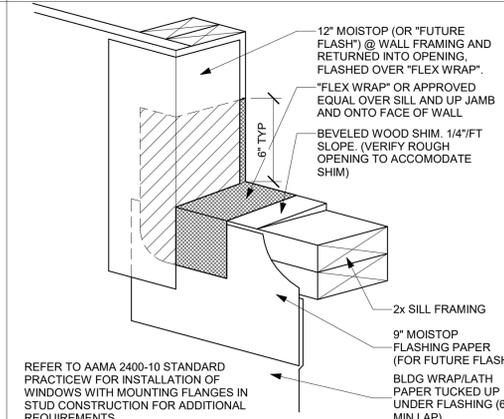
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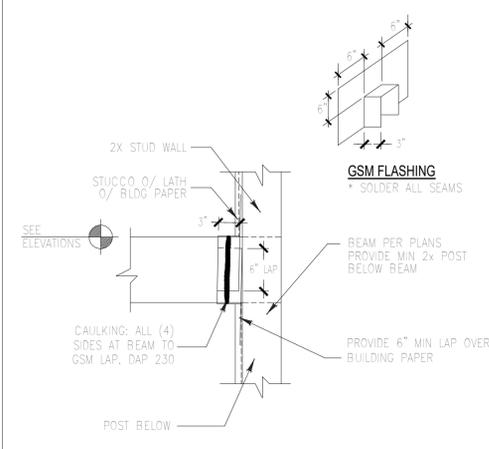
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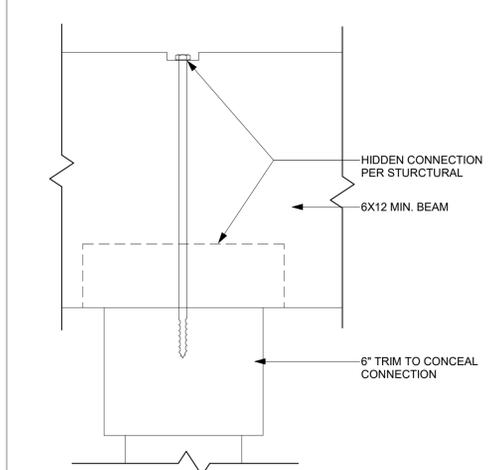
11 TYPICAL WIN FLASHING
AD-901 12" = 1'-0"



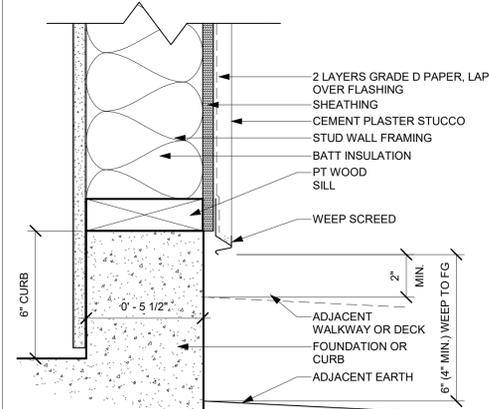
12 TYPICAL CORNER WIN FLASHING
AD-901 12" = 1'-0"



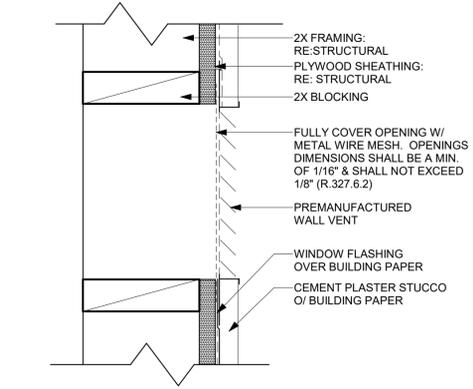
66 BEAM TO WALL FLASHING
AD-901 1" = 1'-0"



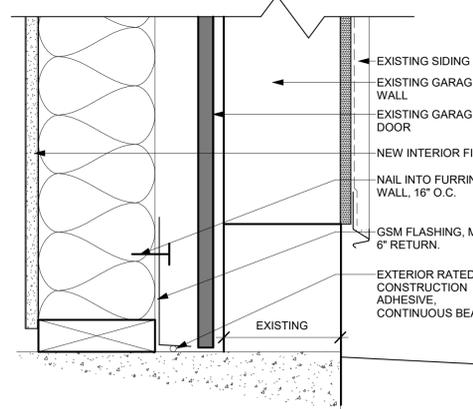
15 COLUMN UPPER/BASE TRIM
AD-901 3" = 1'-0"



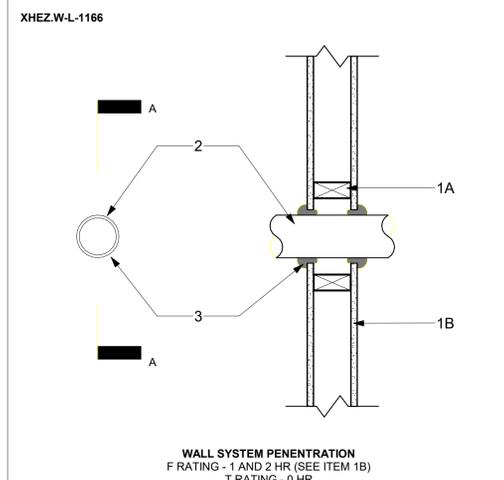
25 CURB DETAIL
AD-901 3" = 1'-0"



41 WALL VENT
AD-901 3" = 1'-0"

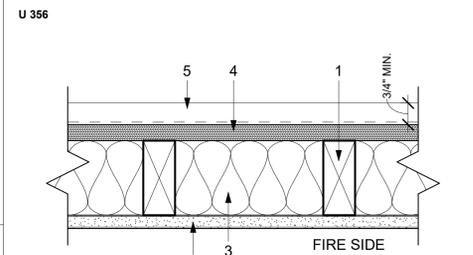


35 GARAGE DOOR FLASHING
AD-901 3" = 1'-0"



- 1. WALL ASSEMBLY**
THE 1 OR 2 HR. FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 IN. BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN. 3 1/2 IN. WIDE AND SPACED MAX. 24 IN. O.C.
- B. GYPSUM BOARD (BEARING THE UL CLASSIFICATION MARKING)- THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAM. OF OPENING IS 5 IN.
- THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- 2. THROUGH-PENETRANTS**
ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE, CONDUIT OR TUBING AND PERIPHERY OF THE OPENING SHALL BE MIN. OF 0 IN. (POINT CONTACT) TO A MAX. 1/8 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
- A. COPPER TUBING- NOM. 4 IN. DIAM. (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBING.
- B. COPPER PIPE- NOM. 4 IN. DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- C. STEEL PIPE- NOM. 4 IN. DIAM. (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
- D. CONDUIT- NOM. 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR RIGID STEEL CONDUIT
- E. IRON PIPE- NOM. 4 IN. DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- 3. FILL VOID OR CAVITY MATERIALS** (BEARING THE UL CLASSIFICATION MARKING) - CAULK OR PUTTY-MIN. 1/2 IN. DIAMETER BEAD OF CAULK OR PUTTY APPLIED CONTINUOUSLY AROUND THE PENETRANT ON THE WALL SURFACES ON BOTH SIDES OF THE WALL.
- 3M COMPANY - CP 25WB+ CAULK OR MPS-2+ PUTTY

45 THROUGH PENETRATION @ WALL
AD-901 1 1/2" = 1'-0"



WOOD STUDS, GYPSUM BOARD AND CEMENT STUCCO

- 1. WOOD STUDS**
NOMINAL 2X4 SPACED 16" O.C. WITH (2) 2X4 TOP PLATES (1) 2X4 BOTTOM PLATE. STUDS LATERALLY-BRACED BY WOOD STRUCTURAL PANEL SHEATHING (ITEM 5) AND EFFECTIVELY FIRE STOPPED AT TOP AND BOTTOM OF WALL.
- 2. GYPSUM BOARD**
ANY CLASSIFIED 5/8" THICK, 48" WIDE, APPLIED VERTICALLY AND NAILED TO STUDS AND BEARING PLATES 7" O.C. WITH 6D CEMENT-COATED NAILS, 1 7/8" LONG WITH 1/4" DIAM. HEAD.
- JOINTS AND NAILHEADS (NOT SHOWN) - WALLBOARD JOINTS COVERED WITH TAPE AND JOINT COMPOUND. NAIL HEADS COVERED WITH JOINT COMPOUND.
- 3. BATTS AND BLANKETS**
MINERAL FIBER OR GLASS INSULATION, 3 1/2" THICK, PRESSURE FIT TO FILL WALL CAVITIES BETWEEN STUDS AND PLATES. MINERAL FIBER INSULATION TO BE UNFACED AND TO HAVE A MIN. DENSITY OF 3 PCF. GLASS FIBER INSULATION TO BE FACED WITH ALUMIUM FOIL OR FRAFT PAPER AND TO HAVE A MIN. DENSITY OF 0.9 PCF (MIN. R-13 THERMAL INSULATION RATING). FIBER SPRAYED - AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 4) - SPRAY APPLIED CELLULOSE INSULATION MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY OF 3.0 LB/CU.FT.
- 4. WOOD STRUCTURAL PANEL SHEATHING**
MIN 7/16" THICK, 4 FT. WIDE WOOD STRUCTURAL PANELS, MIN. GRADE "C-D" OR "SHEATHING" INSTALLED WITH LONG DIMENSION OF SHEET (STRENGTH AXIS) OR FACE GRAIN OF PLYWOOD PARALLEL WITH OR PERPENDICULAR TO STUDS. VERTICAL JOINTS CENTERED ON STUDS. HORIZONTAL JOINTS BACKED WITH NOMINAL 2X4 WOOD BLOCKING. ATTACHED TO STUDS ON EXTERIOR SIDE OF WALL WITH 6D CEMENT COATED BOX NAILS SPACED 6" O.C. AT PERIMETER OF PANELS AND 12" O.C. ALONG INTERIOR STUDS.
- 5. EXTERIOR FACING**
INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION. ONE OF THE FOLLOWING EXTERIOR FACINGS IS TO BE APPLIED OVER THE SHEATHING. REFER TO PLAN FOR INFOEMATION:
- D. CEMENTITIOUS STUCCO - PORTLAND CEMENT OR SYNTHETIC STUCCO SYSTEM WITH SELF-FURRING METAL LATH OR ADHESIVE BASE COAT. THICKNESS FROM 3/8" TO 3/4", DEPENDING ON SYSTEM.
- H. FIBER-CEMENT SIDING - FIBER-CEMENT EXTERIOR SIDING INCLUDING SMOOTH AND PATTERNED PANEL OR LAP SIDING.

UL DES U305

NOTE:
AT INTERIOR WALL USE:
5/8" SHEETROCK FIRECODE CORE PANELS,
5/8" SHEETROCK ULTRALIGHT PANELS FIRE CODE X OR
5/8" FIBEROCK PANELS
2 X 4 WOOD STUD 16" OR 24" O.C.

45 THROUGH PENETRATION @ WALL
AD-901 1 1/2" = 1'-0"

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
ARCHITECTURAL DETAILS - COMMON

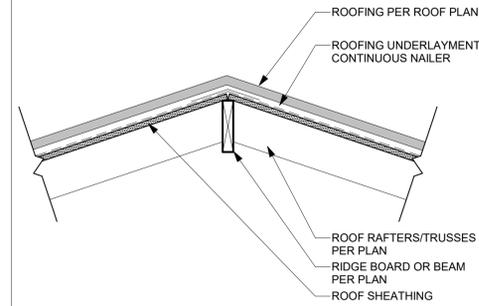
DATE
02/18/23

SHEET

AD-901

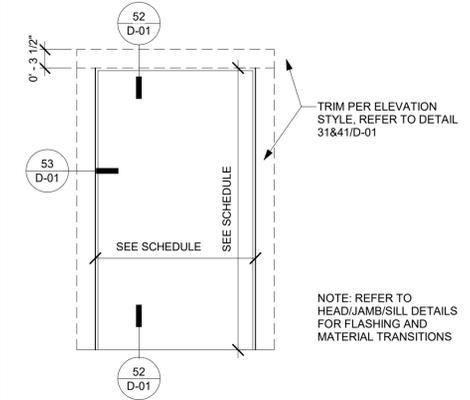


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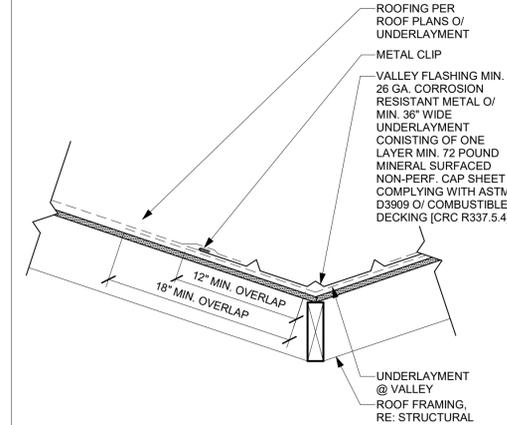
21 HIP/RIDGE

AD-902 1" = 1'-0"



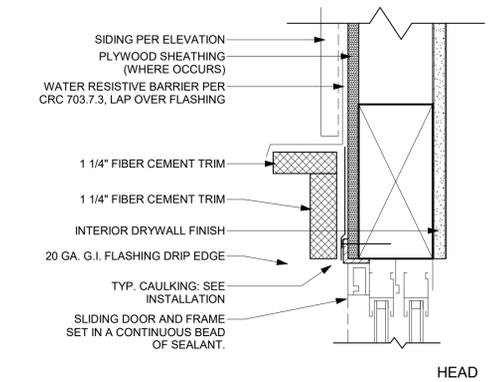
11 DOOR TRIM - SLIDING GLASS Copy 1

AD-902 3/4" = 1'-0"



22 VALLEY FLASHING

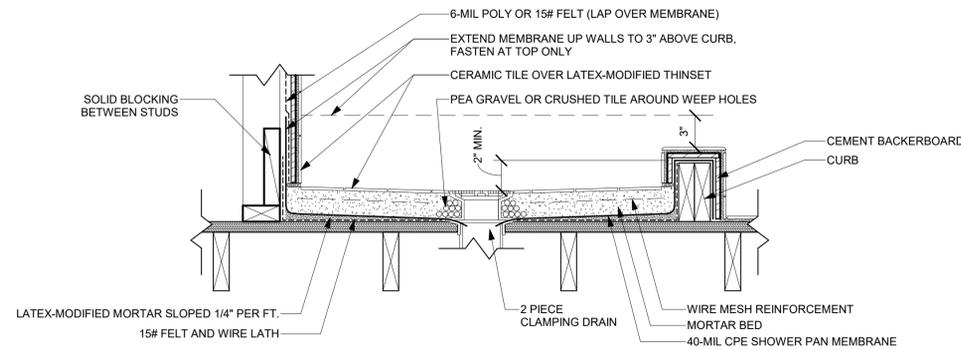
AD-902 1 1/2" = 1'-0"



12 DOOR-SLIDING GLASS

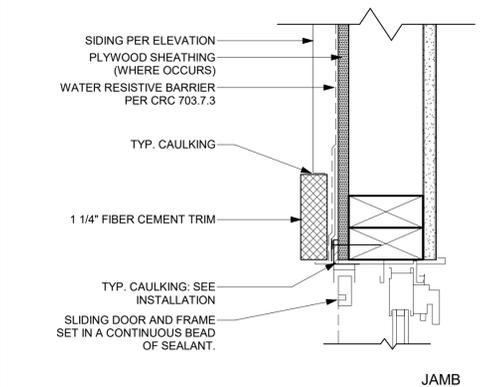
AD-902 3" = 1'-0"

- GENERAL NOTES:**
- REFER TO 2019 CPC FOR COMPLETE INFORMATION
 - FINISH FLOOR TO HAVE 1/4" MIN. TO 1/2" MAX SLOPE TO DRAIN PER FOOT.
 - FINISH HEIGHT OF DAM TO BE AT LEAST 2" (50.8mm) ABOVE HIGH POINT OF DRAIN.



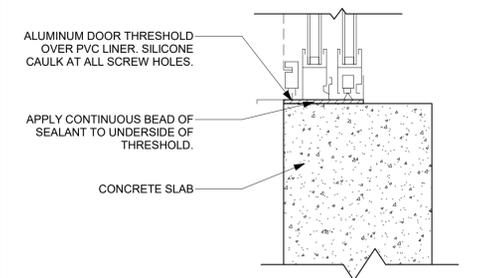
33 SHOWER PAN

AD-902 1 1/2" = 1'-0"



13 DOOR-SLIDING GLASS

AD-902 3" = 1'-0"



14 DOOR-SLIDING GLASS

AD-902 3" = 1'-0"

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
ARCHITECTURAL DETAILS - COMMON

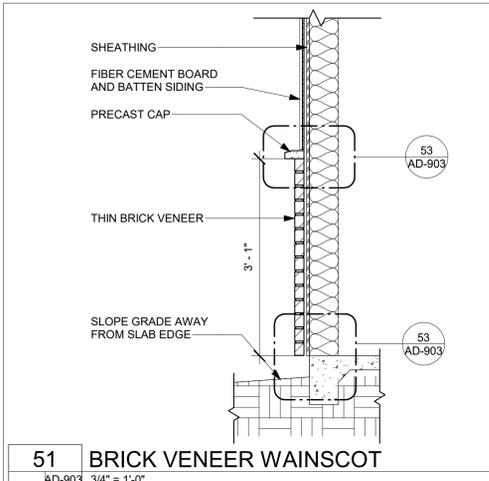
DATE
02/18/23

SHEET

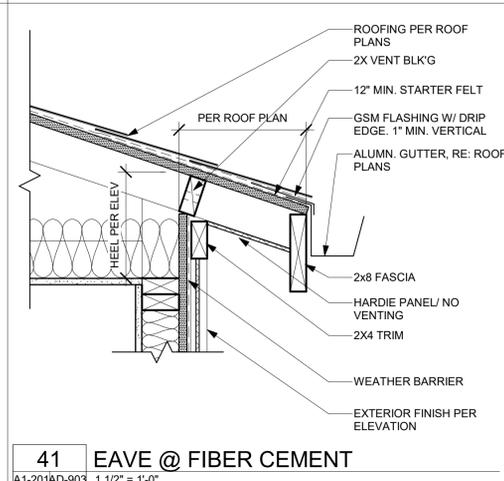
AD-902



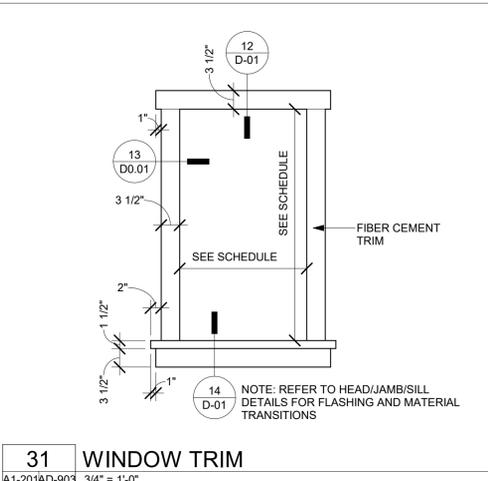
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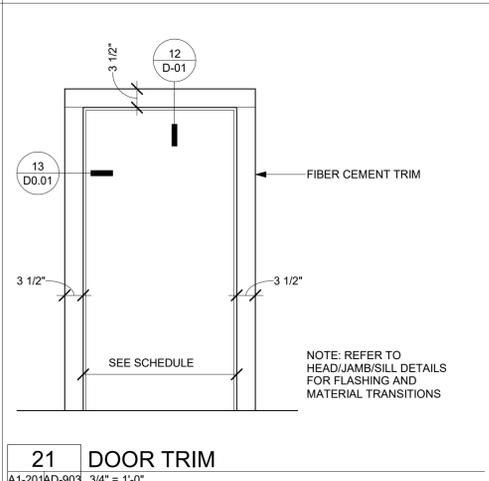
51 BRICK VENEER WAINSCOT
AD-903 3/4" = 1'-0"



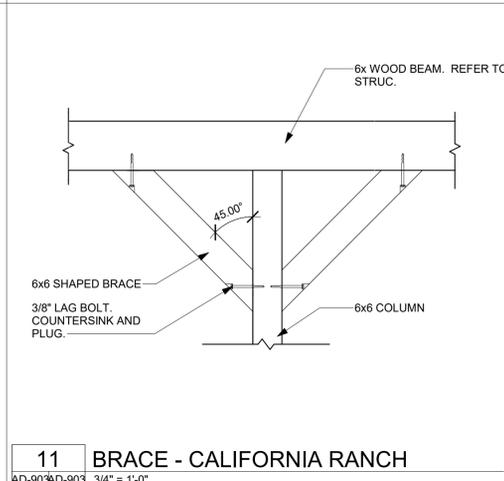
41 EAVE @ FIBER CEMENT
A1-201AD-903 1 1/2" = 1'-0"



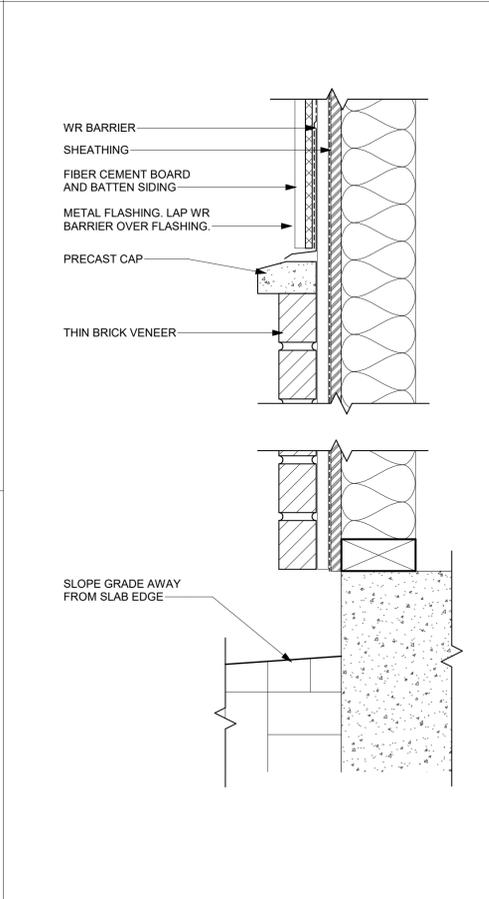
31 WINDOW TRIM
A1-201AD-903 3/4" = 1'-0"



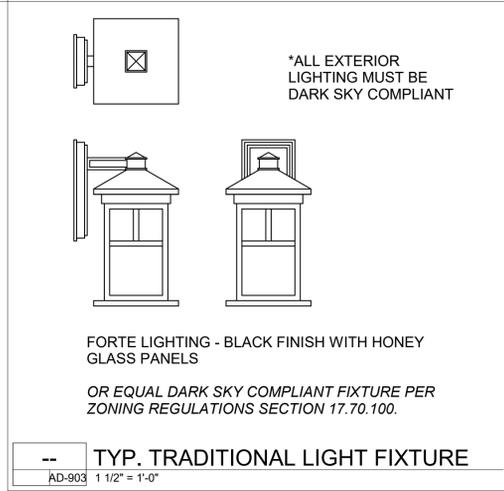
21 DOOR TRIM
A1-201AD-903 3/4" = 1'-0"



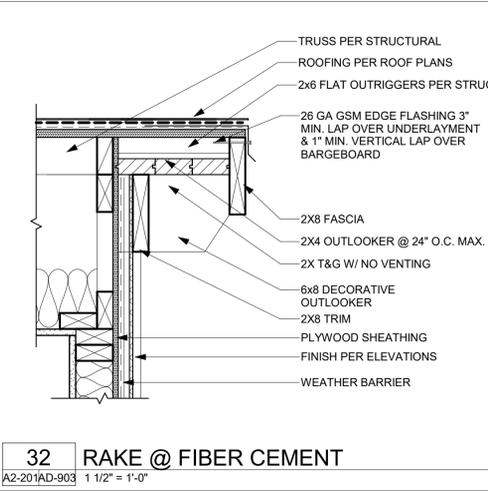
11 BRACE - CALIFORNIA RANCH
AD-903AD-903 3/4" = 1'-0"



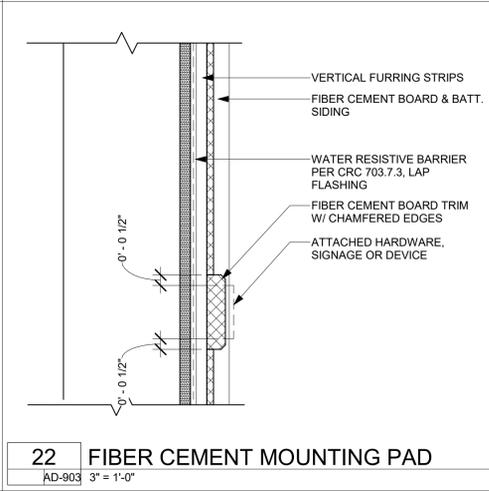
53 BRICK VENEER WAINSCOT
AD-903AD-903 3" = 1'-0"



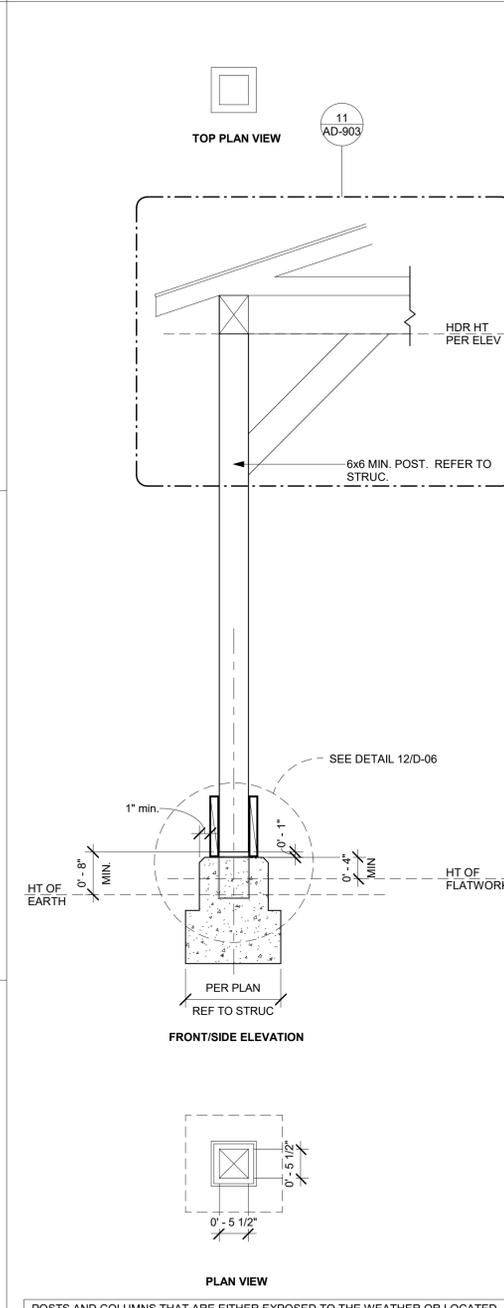
-- TYP. TRADITIONAL LIGHT FIXTURE
AD-903 1 1/2" = 1'-0"



32 RAKE @ FIBER CEMENT
A2-201AD-903 1 1/2" = 1'-0"

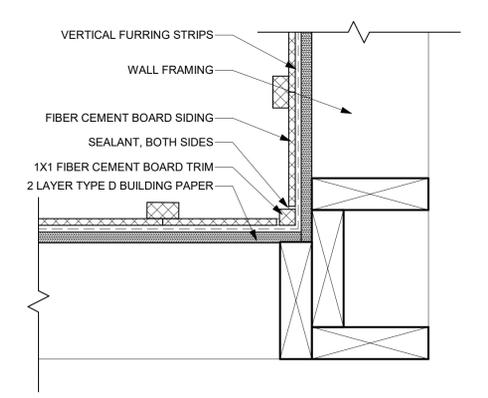


22 FIBER CEMENT MOUNTING PAD
AD-903 3" = 1'-0"

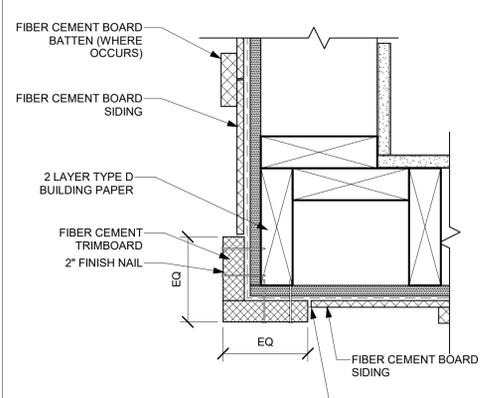


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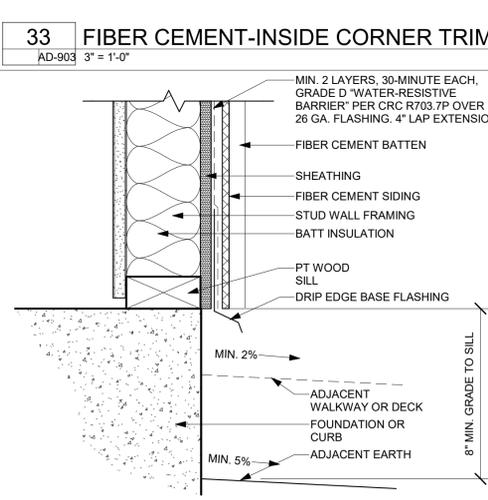
14 POST-CALIFORNIA RANCH
AD-903 3/4" = 1'-0"



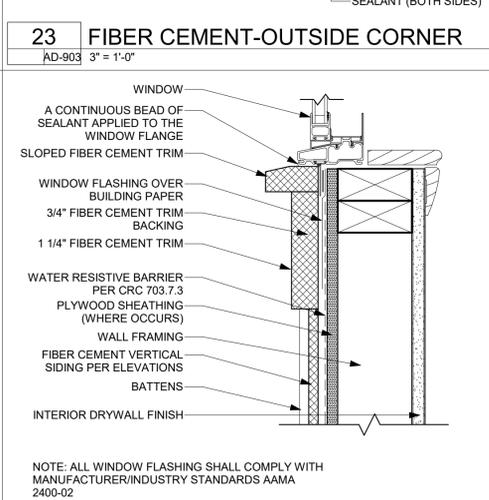
33 FIBER CEMENT-INSIDE CORNER TRIM
AD-903 3" = 1'-0"



23 FIBER CEMENT-OUTSIDE CORNER
AD-903 3" = 1'-0"



34 TYP. SIDING WEEP SCREED DETAIL
A1-201AD-903 3" = 1'-0"



24 TYP. WINDOW SILL-BOARD AND BATT.
AD-903 3" = 1'-0"

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
ARCHITECTURAL DETAILS - CALIFORNIA RANCH

DATE
0218/23

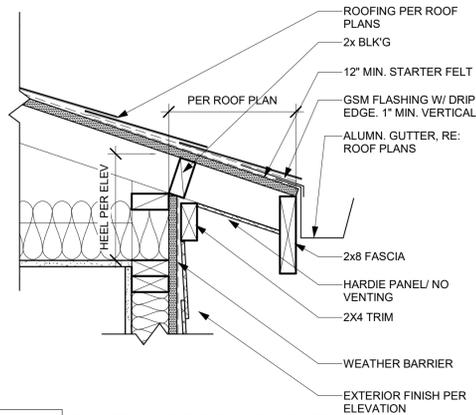
SHEET

AD-903

5/12/2023 9:31:52 AM C:\Users\jenkins\OneDrive - RRM\Design Group\Documents\2727-01 Carpinteria ADU_Public Set_injenkins.rvt

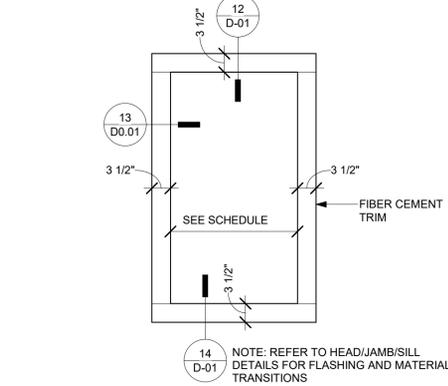


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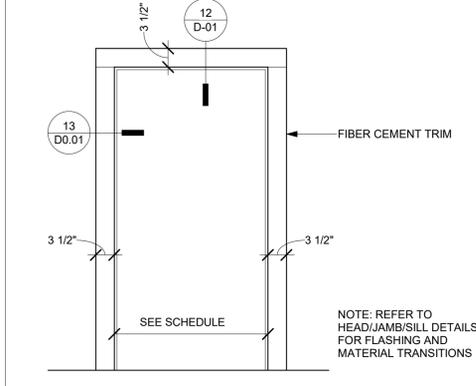
41 EAVE @ FIBER CEMENT

A1-202AD-904 1 1/2" = 1'-0"



31 WINDOW TRIM

A2-202AD-904 3/4" = 1'-0"



21 DOOR TRIM

A1-202AD-904 3/4" = 1'-0"



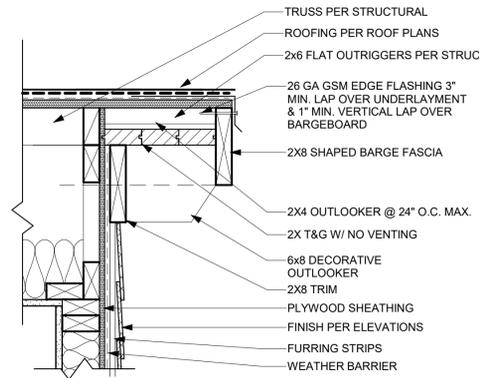
*ALL EXTERIOR LIGHTING MUST BE DARK SKY COMPLIANT

THE GREAT OUTDOORS - WALL MOUNT KIRKHAM ASPEN BROZE (8102-A138-L)

OR EQUAL DARK SKY COMPLIANT FIXTURE PER ZONING REGULATIONS SECTION 17.70.100.

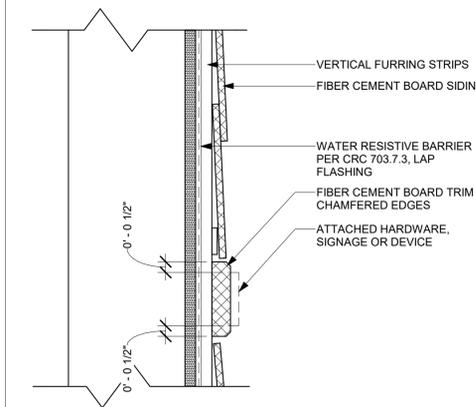
42 TYP. LIGHTING FIXTURE

AD-904 1 1/2" = 1'-0"



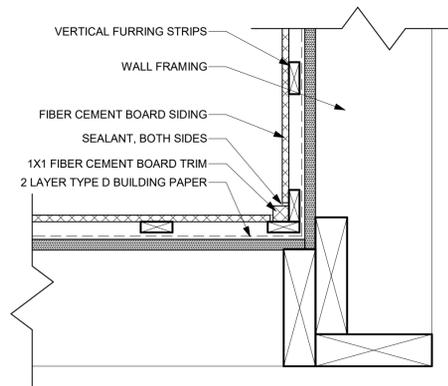
32 RAKE @ PLASTER

A1-202AD-904 1 1/2" = 1'-0"



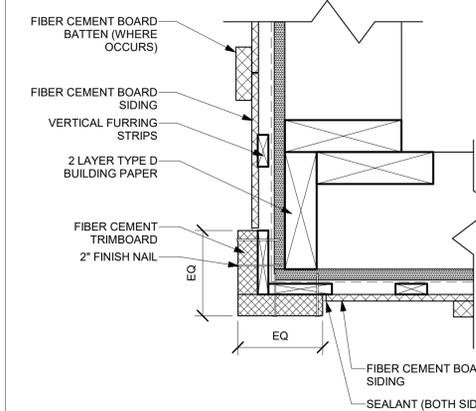
22 FIBER CEMENT MOUNTING PAD

AD-904 3" = 1'-0"



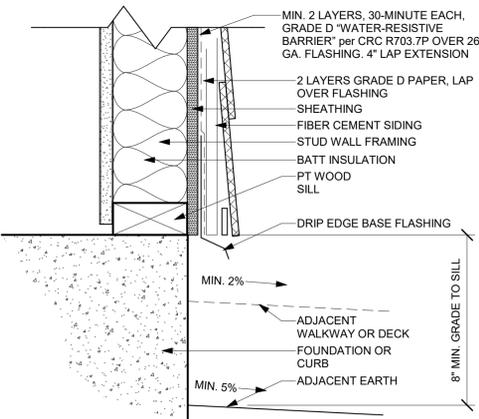
33 FIBER CEMENT-INSIDE CORNER TRIM

A1-202AD-904 3" = 1'-0"



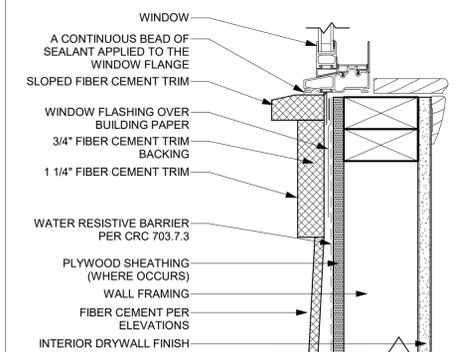
23 FIBER CEMENT-OUTSIDE CORNER

AD-904 3" = 1'-0"



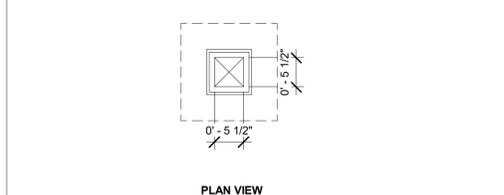
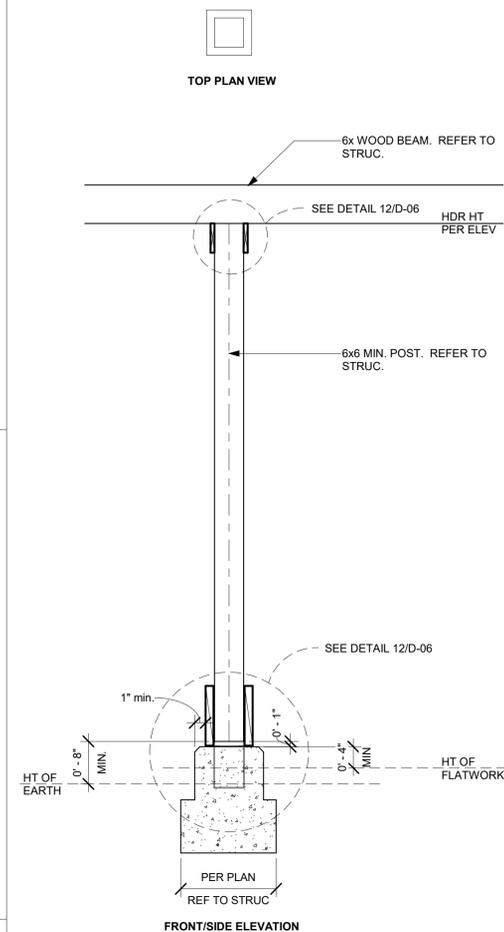
34 TYP SIDING WEEP SCREED DETAIL

A1-202AD-904 3" = 1'-0"



24 TYP. WINDOW SILL-FIBER CEMENT

AD-904 3" = 1'-0"



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14 POST-COASTAL COTTAGE

AD-904 3/4" = 1'-0"

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
ARCHITECTURAL DETAILS -
COASTAL COTTAGE

DATE
0218/23

SHEET
AD-904

SYMBOLS

WALL TYPES

SHEET INDEX

	DETAIL REFERENCE BUBBLE WITH LEADER		INDICATES SHEAR WALL TYPE AND LENGTH. PER SHEAR WALL SCHEDULE		INDICATES TOP PLATE SPLICE NAILING PER SCHEDULE
	DETAIL REFERENCE BUBBLE		INDICATES SPAN AND DIRECTION OF PREFABRICATED ROOF TRUSS (BY OTHERS)		INDICATES SHEAR WALL STRAP / HOLD-DOWN TYPE PER SCHEDULE
	FULL HEIGHT SECTION INDICATOR		INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST WITH WEB STIFFENER		INDICATES PAD FOOTING TYPE PER SCHEDULE
	ELEVATION OF WALL OR FRAME		INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST		INDICATES CONTINUOUS FOOTING TYPE PER SCHEDULE
	NORTH ARROW		INDICATES EXTENTS OF FRAMING OR OTHER STRUCTURAL ELEMENT		ANGLE BRACE
	TOP/BOTTOM OF ELEVATIONS		INDICATES SAND OR GROUT		DOUBLE ANGLE BRACE
	SLOPE		INDICATES GRAVEL		DRAG STRUT CONNECTION
	WELDED WIRE FABRIC (WWF LAYER)		STEEL IN CROSS SECTION		FULL HEIGHT STIFFENER CONNECTION
	STEPPED SURFACE: FLOOR DEPRESSION		INDICATES BEARING WALL		MOMENT CONNECTION
	SLOPED SURFACE		SHADED AREA INDICATES CALIFORNIA FRAMING		MEMBER SPLICE
	STEPPED FOOTING		SHADED AREA INDICATES FOOTPRINT OF FLOOR ABOVE		TOP OF STEEL ± ELEVATION
	BOTTOM STEPPED FOOTING		STEEL HSS TUBE COLUMN		[X]
			STEEL HSS OR PIPE COLUMN		[X-Y-Z]
			WIDE FLANGE STEEL COLUMN		<3/4>
			WOOD POST		

	INDICATES PLYWOOD SIDE FOR SHEARWALL
	INDICATES BEARING WOOD WALL BELOW
	INDICATES BEARING WOOD WALL ABOVE
	INDICATES NON-BEARING WOOD WALL BELOW
	INDICATES NON-BEARING WOOD WALL ABOVE
	INDICATES EXISTING BEARING WOOD WALL
	INDICATES EXISTING NON-BEARING WOOD WALL
	INDICATES BEARING CMU WALL BELOW
	INDICATES BEARING CMU WALL ABOVE
	INDICATES NON-BEARING CMU WALL BELOW
	INDICATES NON-BEARING CMU WALL ABOVE
	INDICATES EXISTING BEARING CMU WALL
	INDICATES EXISTING NON-BEARING CMU WALL
	INDICATES BEARING CONCRETE WALL BELOW
	INDICATES BEARING CONCRETE WALL ABOVE
	INDICATES NON-BEARING CONCRETE WALL BELOW
	INDICATES NON-BEARING CONCRETE WALL ABOVE
	INDICATES EXISTING BEARING CONCRETE WALL
	INDICATES EXISTING NON-BEARING CONCRETE WALL

S1-101	SHEET INDEX, ABBREVIATION & SYMBOL
S1-102	GENERAL NOTES
S1-103	GENERAL NOTES, SPECIAL INSPECTION & TESTS
S1-201	FOUNDATION PLAN
S1-202	ROOF FRAMING PLAN
S1-301	TYPICAL CONCRETE DETAILS
S1-311	CONCRETE DETAILS
S1-312	CONCRETE DETAILS
S1-401	TYPICAL WOOD DETAILS
S1-402	TYPICAL WOOD DETAILS
S1-403	TYPICAL WOOD DETAILS
S1-404	TYPICAL WOOD DETAILS
S1-421	ROOF FRAMING DETAILS
S1-422	ROOF FRAMING DETAILS



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ABBREVIATIONS

A & B	ABOVE AND BELOW	d	PENNY (NAIL OR BAR DIA)	HDR	HEADER	PA	POST ABOVE	T & B	TOP AND BOTTOM
AB	ANCHOR BOLT	DBL	DOUBLE	HGR	HANGER	PARA OR //	PARALLEL	T & G	TONGUE & GROOVE
ABV	ABOVE	DEPT	DEPTH	HP	HIGH POINT	PC	PRECAST; PIECE	TO	TOP OF
ACI	AMERICAN CONCRETE INSTITUTE	DET	DETAIL	HSB	HORIZONTALLY SLOTTED HOLES	PERP	PERPENDICULAR	TOC	TOP OF CURB; TOP OF CONCRETE
ADDL	ADDITIONAL	DF	DOUGLAS FIR/LARCH	HT	HEIGHT	PI	PLYWOOD INDEX	TOF	TOP OF FOOTING
ADJ	ADJACENT	DIA OR Ø	DIAMETER	ID	INSIDE DIAMETER	R OR PL	PLATE	TOF	TOP OF FOOTING
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	DIAG	DIAGONAL	IF	INSIDE FACE	PL	PROPERTY LINE	TEMP	TEMPERATURE; TEMPORARY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	DIAPH	DIAPHRAGM	I-JST	I-JOIST	PLF	PONDS PER LINEAL FOOT	THRU	THROUGH
ALT	ALTERNATE	DM	DIMENSION	IN	INCH	PLCS	PLACES	THK	THICKNESS/THICK
ALUM	ALUMINIUM	DN	DOWN	INCL	INCLUDE	PLY	PLYWOOD	THR	THREADED
ANCH	ANCHOR	DO	DO OVER	INFO	INFORMATION	PROP	PROPERTY	TOP or 1	TOP
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DWG	DRAWING	INSP	INSPECTION	PT	PRESSURE TREATED	TOS	TOP OF STEEL/TOP OF SLAB
APA	ENGINEERED WOOD ASSOCIATION (FORMERLY THE AMERICAN PLYWOOD ASSOCIATION)	DWL	DOWEL	INT	INTERIOR	PW	PLATE WASHER	TOW	TOP OF WALL
APPVD	APPROVED	EA	EACH	INT	INTERIOR	PJP	PARTIAL JOINT PENETRATION WELD	TS	TRIMMER STUD
APPROX	APPROXIMATE	EF	EACH FACE	JST	JOIST	PREFAB	PREFABRICATED	TYP	TYPICAL
ARCH	ARCHITECTURAL; ARCHITECT	EJ	EXPANSION JOINT	JT	JOINT	PSF	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION	EL	ELEVATION	K	KIPS	PSI	POUNDS PER SQUARE INCH	UT	ULTRA-SONIC TEST
AWS	AMERICAN WELDING SOCIETY	ELEC	ELECTRICAL	KS	KING STUD	PSL	PARALLEL STRAND LUMBER	VERT	VERTICAL
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	ELEV	ELEVATOR	KSI	KIPS PER SQUARE INCH	PVMT	PAVEMENT	VSH	VERTICAL SLOTTED HOLES
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	EMBED	EMBEDMENT	LB(S) OR #	POUND(S)	#	POUND; NUMBER	W/	WITH
BLDG	BUILDING	EN	EDGE NAIL	LF	LINEAL FOOT	REF	REFERENCE	WO	WITHOUT
BLK	BLOCK	ENGR	ENGINEER	LN	LINEAL; LINEAR	REIN	REINFORCE; REINFORCING	WD	WOOD
BLKG	BLOCKING	EQ	EQUAL OR EQUIVALENT	LH	LONG LEG HORIZONTAL	REQD	REQUIRED	WP	WORK POINT; WATERPROOF
BM	BEAM	EQUIP	EQUIPMENT	LLV	LONG LEG VERTICAL	RF	ROOF	WWF	WELDED WIRE FABRIC
BN	BOUNDARY NAIL	ES	EACH SIDE	LP	LOW POINT	RR	ROOF RAFTER		
BOT OR B	BOTTOM	EW	EACH WAY	LSH	LONG SLOTTED HOLES	Ø	ROUND; DIAMETER		
BRC	BRACE	EXIST or [E]	EXISTING	LSL	LAMINATED STRAND LUMBER	SCHED	SCHEDULE		
BRG	BEARING	EXT	EXTERIOR	LT WT	LIGHTWEIGHT	SECT	SECTION		
BTWN	BETWEEN	FDN	FOUNDATION	LVL	LEVEL OR LAMINATED VENEER LUMBER	SEP	SEPARATION		
CANT	CANTILEVER	FIN	FINISH	MAT	MASONRY	SHT	SHEET		
CAM OR C	CAMBER	FJ	FLOOR JOIST	MAS	MASONRY	SHTG	SHEATHING		
CC	CENTER TO CENTER	FLG	FLANGE	MATL	MATERIAL	SIM	SMILAR		
CG	CENTER OF GRAVITY	FLR	FLOOR	MAX	MAXIMUM	SOG	SLAB ON GRADE		
CP	CAST-IN-PLACE	FN	FIELD NAIL	MB	MACHINE BOLT	SN	SHEAR NAIL		
CJ	CONSTRUCTION JOINT; CONTROL JOINT	FOC	FACE OF CONCRETE	MECH	MECHANICAL	SPCG	SPACING		
CL	CENTER LINE	FOM	FACE OF MASONRY	MFR	MANUFACTURER	SPECS	SPECIFICATIONS		
CLR	CLEARANCE; CLEAR	FOS	FACE OF STUD	MIN	MINIMUM; MINUTE	SQ	SQUARE		
CMU	CONCRETE MASONRY UNIT	FOW	FACE OF WALL	MISC	MISCELLANEOUS	SS	STAINLESS STEEL		
COL	COLUMN	FRMG	FRAMING	[N]	NEW	SSL	SHORT SLOTTED HOLES		
COMP	COMPRESSION	FT	FOOT; FEET	N	NORTH	STD	STANDARD		
CONN	CONCRETE	FTA	FLOOR TIE ABOVE	NO or #	NUMBER	STGR	STAGGER		
CONN	CONNECTION; CONNECT	FTG	FOOTING	NTS	NOT TO SCALE	STIFF	STIFFENERS		
CONSTR	CONSTRUCTION	GA	GAUGE	OC	ON CENTER	STIRR	STIRRUP		
CONT	CONTINUE; CONTINUOUS	GALV	GALVANIZED	OD	OUTSIDE DIAMETER	STL	STEEL		
CONTR	CONTRACTOR	GB	GRADE BEAM	OF	OUTSIDE FACE	STRUCT	STRUCTURAL		
CJP	COMPLETE JOINT PENETRATION WELD	GLB	GLUED LAMINATED BEAM	OH	OPPOSITE HAND	SW	SHEAR WALL		
CTR	CENTER	GR	GRADE	OPNG	OPENING	SYM	SYMMETRICAL		
CTS&K	COUNTERSINK; COUNTERSUNK	GRND	GROUND	OPP	OPPOSITE	TB	TIE BEAM		
CU FT	CUBIC FOOT	H or HORIZ	HORIZONTAL	ORIG	ORIGINAL				
				OSB	ORIENTED STRAND BOARD				

CARPINTERIA ADU PROTOTYPES
 SANTA BARBARA COUNTY, CA
SHEET INDEX, ABBREVIATION & SYMBOL

DATE
05/09/2023
 SHEET
S1-101

\\carp\m\on-site\2020\2277-01-C121-Carpinteria-Downtown-Design-Overlay-882-Funded-Structural\ConDoc\Sheet\Plan\1\2277-01-C121 - 3101.dwg, 5:101 - May 09, 2023 2:07pm, Alcazar



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CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
GENERAL NOTES

GENERAL

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
 - 2022 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2022 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".
 - ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA).
 - CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS, WHEN NO DETAILS ARE GIVEN. CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
 - SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
 - SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
 - SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
 - SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
 - FLOOR AND ROOF FINISHES
 - MISCELLANEOUS DRAINAGE AND WATERPROOFING
 - ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
 - DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
 - PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
 - ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
 - CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
 - SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
- SEE CIVIL DRAWINGS FOR THE FOLLOWING:
 - HEIGHT AND/OR ELEVATION OF:
 - FINISHED SURFACE
 - TOP OF WALL
 - TOP OF GRADE
 - FINISHED GRADE
 - SLOPE
 - SITE CONCRETE WALKWAYS, CURBS & PAVING
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC.. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTORS MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS OR CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY.
- BACKFILL SHALL NOT BE PLACED BEHIND EXTERIOR AND INTERIOR RETAINING WALLS UNTIL THE CONCRETE / CMU HAS ACHIEVED FULL DESIGN STRENGTH. FOR BRACED WALLS SUPPORTED BY STRUCTURAL DIAPHRAGMS, BACKFILL SHALL NOT BE PLACED BEHIND THE WALL UNTIL THE DIAPHRAGM HAS BEEN INSTALLED, AND FOR CONCRETE DIAPHRAGMS, HAS ACHIEVED FULL DESIGN STRENGTH.
- THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR SHALL MAKE PROVISIONS IN THE LAYOUT OF THE BUILDING TO TAKE INTO ACCOUNT SHRINKAGE, CREEP, SHORTENING, ETC.
- OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
- ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING
- AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.
 - FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
 - FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.
- EDGE OF SLAB DIMENSIONS TO BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION.

DIMENSIONS

- DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).
- WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSION NOT NOTED ON STRUCTURAL DRAWINGS.
- SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
- SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

DESIGN INFORMATION

1. FLOOR LIVE LOADS [2022 CBC SECTION 1603.1.1.]

FLOOR LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
RESIDENTIAL ONE- AND TWO- FAMILY DWELLINGS UNINHABITABLE ATTICS WITHOUT STORAGE UNINHABITABLE ATTICS WITH STORAGE HABITABLE ATTICS AND SLEEPING AREAS ALL OTHER AREAS	10 20 30 40	—	2022 CBC TABLE 1607.1

2. ROOF LIVE LOADS [2022 CBC SECTION 1603.1.2.]

ROOF LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
ROOF ORDINARY FLAT, PITCHED AND CURVED ROOFS (THAT ARE NOT OCCUPIABLE)	20	—	2022 CBC TABLE 1607.1

3. ROOF SNOW LOADS [2022 CBC SECTION 1603.1.3.]

SNOW DESIGN DATA		
PARAMETER	VALUE	REFERENCE
GROUND SNOW LOAD	P _g = 0 PSF	ASCE 7-16 7.2

4. WIND DESIGN DATA [2022 CBC SECTION 1603.1.4.]

WIND DESIGN DATA		
PARAMETER	VALUE	REFERENCE
ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	V _{ult} = 92 MPH	2022 CBC FIG. 1609.3
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V _{nd} = 72 MPH	2022 CBC 1609.3.1
EXPOSURE CATEGORY	C	2022 CBC 1609.4.3
INTERNAL PRESSURE COEFFICIENT:	GC _{pi} = ± 0.18	ASCE 7-16 TABLE 26.13-1

5. COMPONENTS & CLADDING WIND PRESSURES (PSF)

LOCATION	ZONE	COMPONENT TRIBUTARY AREA (SQ FT)			
		10	100	500	
ROOF	ZONE 1	-26.3	-20.0	-16.0	
	ZONE 2a	-26.3	-20.0	-16.0	
	ZONE 2b	-41.9	-24.7	-21.6	
	ZONE 2c	-41.9	-24.7	-21.6	
	ZONE 3a	-41.9	-24.7	-21.6	
	ZONE 3b	-45.8	-31.0	-31.0	
	ALL ZONES	16.0	16.0	16.0	
	OVERHANG	ZONE 1	-34.1	-32.5	-31.0
		ZONE 2a	-34.1	-32.5	-31.0
		ZONE 2b	-49.7	-39.6	-37.2
		ZONE 2c	-49.7	-39.6	-37.2
		ZONE 3a	-59.1	-40.3	-40.3
ZONE 3b		-59.1	-40.3	-40.3	
WALL	ZONE 4	-20.0	-17.4	-16.0	
	ZONE 5	-24.7	-19.2	-16.0	
	POSITIVE	18.4	16.0	16.0	

6. EARTHQUAKE DESIGN DATA [2022 CBC SECTION 1603.1.5.]

SITE AND OCCUPANCY PARAMETERS		
PARAMETER	VALUE	REFERENCE
RISK CATEGORY	II	2022 CBC TABLE 1604.5
SEISMIC IMPORTANCE FACTOR	I = 1.0	ASCE 7-16 TABLE 1.5-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S ₁ = 2.375 g S _{0.1} = 0.836 g	2022 CBC 1613.2.1
SITE CLASS	D (DF)	2022 CBC 1613.2.2
SPECTRAL RESPONSE COEFFICIENTS:	S _{DS} = 1.9 g S _{DI} = 0.947 g	2022 CBC 1613.2.4

7. BUILDING PARAMETERS

PARAMETER	VALUE	REFERENCE
SEISMIC DESIGN CATEGORY	SDC = D	2022 CBC 1613.2.5
BASIC SEISMIC FORCE RESISTING SYSTEM	LIGHT FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	ASCE 7-16 TABLE 12.2-1
RESPONSE MODIFICATION FACTOR	R = 6 1/2	
SYSTEM OVERSTRENGTH FACTOR	O ₀ = 3	
DEFLECTION AMPLIFICATION FACTOR	C _d = 4	
DESIGN BASE SHEAR	V = 5.1 k	ASCE 7-16 12.8.1
SEISMIC RESPONSE COEFFICIENTS	C _s = 0.292	ASCE 7-16 12.8.1.1
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE	ASCE 7-16 12.8

8. GEOTECHNICAL INFORMATION [2022 CBC SECTION 1603.1.6:] REFER TO FOUNDATION GENERAL NOTES

FOUNDATION

1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING:
- DESIGN LATERAL SOIL LOADS ARE IN ACCORDANCE WITH 2022 CBC TABLE 1610.1
 - ALLOWABLE FOUNDATION BEARING AND LATERAL PRESSURES ARE IN ACCORDANCE WITH 2022 CBC TABLE 1806.2

2. SPREAD OR CONTINUOUS FOOTINGS:

ELEMENT	ALLOWABLE BEARING CAPACITY (PSF) *	ALLOWABLE LATERAL RESISTANCE †	
		PASSIVE RESISTANCE (PSF/FT BELOW GRADE) †	COHESION (PSF)
SHALLOW FOUNDATION	1,500	100	130

- NOTES:
- THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.
 - THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE AND PASSIVE RESISTANCE.
 - THE UPPER FOOT OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN CALCULATING PASSIVE RESISTANCE.
 - COMPACTED FILL SHOULD BE PREPARED AS FOLLOWS: A MIN OF 12" OF COMPACTED FILL SHALL BE PROVIDED, COMPACTED TO A MIN OF 90 PERCENT MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557 (2022 CBC 1804.6)

- WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.
- EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH, WITH LEVEL BOTTOMS.
- FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITH BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER REPRESENTATIVE PER SECTION 1705.6 OF THE CODE.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.

EXISTING CONDITIONS

- ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.
- WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

EXISTING UNDERGROUND UTILITIES

- THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
- AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.
 - FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
 - FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

DEMOLITION

- ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS, WHICH ARE TO REMAIN IN THE FINISHED STRUCTURE.
- ALL ELEMENTS OF THE STRUCTURE, WHICH ARE TO REMAIN, AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL EXISTING ELEMENTS THAT ARE NECESSARY FOR THE INSTALLATION OF ALL NEW WORK.
- WHERE EXISTING PARTITION WALLS ARE TO BE DEMOLISHED, CONTRACTOR SHALL VERIFY WALLS ARE NON-BEARING PRIOR TO DEMOLITION. IF WALLS ARE FOUND TO BE BEARING, CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY

CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-19.
- CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

MATERIAL	ASTM STANDARD
PORTLAND CEMENT (TYPE II)	C150
CONCRETE AGGREGATES (HARDROCK)	C33
WATER*	C1602
COAL FLY ASH OR POZZOLAN (CLASS F)	C618
NATURAL OR MANUFACTURED SAND	C33
SLAG	C989

- FOR SOILS WITH HIGH CONCENTRATIONS OF SULFATES (EXPOSURES S2 OR S3 PER ACI 318-19 TABLE 19.3.2.1) PORTLAND CEMENT SHALL BE TYPE V. VERIFY WITH PROJECT GEOTECHNICAL REPORT.
- WATER SHOULD ONLY BE ADDED AT THE BATCH PLANT. IN NO CASE SHALL THE DESIGN WATER/ CEMENT RATIO BE EXCEEDED.

- CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-19. WHICH REFERENCES ACI 301-10 ARTICLE 4.2.3. MIX DESIGNS SHALL INCLUDE DOCUMENTATION OF MIX AVERAGE COMPRESSIVE STRENGTH THROUGH FIELD TEST DATA OR TRAIL MIXTURES IN ACCORDANCE WITH ACI 301-10 ARTICLE 4.2.3.4. SCHEDULE OF STRUCTURAL CONCRETE STRENGTHS AND LOCATIONS (UNO):

LOCATION IN STRUCTURE	MINIMUM STRENGTH [PSI]	DENSITY (PCF)	MAX SLUMP (IN/1)	MAX WATER/CEMENT RATIO	SLAG/ FLY ASH† [MAX]
CONCRETE FOUNDATIONS, GRADE BEAMS, TIE BEAMS	2,500	150	4	0.5	0.15
CONCRETE SLAB ON GRADE	2,500	150	4	0.45	0.15

- AS MEASURED BY CEMENT/UNIT WEIGHT
- DEPOSITING AND CONVEYING OF CONCRETE SHALL CONFORM TO SECTION 26.5 OF ACI 318-19 AND PROJECT SPECIFICATIONS.
 - ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.
 - ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
 - PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT SEOR APPROVAL. NOTIFY THE SEOR IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
 - PIPES EMBEDDED IN CONCRETE:
 - CONCRETE
 - PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOTE BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR.
 - NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
 - PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
 - DO NOT STACK CONDUITS, SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR.

REINFORCING STEEL

- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-19, ASTM A706, GRADE 60 UNO, ASTM A615 GR 60 STEEL, MAY BE SUBSTITUTED FOR ASTM A706 GRADE 60 STEEL PER ACI 318-19 SECTION 20.2.2.5 PROVIDED THE FOLLOWING CONDITIONS ARE MET:
 - THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI.
 - THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
 - WHERE REINFORCEMENT COMPLYING WITH ASTM A615 IS TO BE WELDED, CHEMICAL TESTS SHALL BE PERFORMED TO DETERMINE WELDABILITY IN ACCORDANCE WITH SECTION 26.4.4 OF ACI 318-19.
- BARs SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- REINFORCING BAR LAP SPICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPICES UNLESS NOTED OTHERWISE ON PLANS.
 - MINIMUM LAP SPICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-19 SECTION 25.5.2 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
- REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE THE CONCRETE IS PLACED AND SHALL BE SECURED AGAINST DISPLACEMENT DURING CONSTRUCTION WITHIN PERMITTED TOLERANCES. ADEQUATE SUPPORTS ARE ALSO NECESSARY TO KEEP THE REINFORCING STEEL AT THE PROPER DISTANCE FROM THE FORMS. USE WIRE BAR SUPPORTS, PRECAST CONCRETE SUPPORTS, SPACERS, BOLSTERS, REINFORCEMENT OR OTHER MEANS OF SUPPORT PER THE "CRSI MANUAL OF STANDARD PRACTICE", LATEST EDITION.
- ED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.
- CONCRETE PROTECTION FOR REINFORCEMENT

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):	MINIMUM COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER: NO.6 THROUGH NO. 18 BAR NO.5 BAR, W31 OR D31 WIRE & SMALLER	2 1 1/2
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: NO.14 AND NO.18 BARS NO.11 BAR & SMALLER BEAMS, COLUMNS: PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS	1 1/2 3/4 1 1/2

WOOD (GENERAL)

- PRESERVATIVE TREATMENT:
 - WOOD MEMBERS SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH A1C 1109-07, STANDARD FOR PRESERVATIVE TREATMENT, BASED ON THE SERVICE CONDITION PER THE USE CATEGORIES (UC3) SPECIFIED IN AWPA U1-06.
 - UC1 - INTERIOR CONSTRUCTION, ABOVE GROUND, DRY - NO PRESERVATIVE TREATMENT REQUIRED
 - UC2 - INTERIOR CONSTRUCTION, ABOVE GROUND, WET - PRESERVATIVE TREATMENT REQUIRED IF THE HUMIDITY OR MOISTURE CONDENSATION IS 20% OR GREATER.
 - UC3 - EXTERIOR CONSTRUCTION ABOVE GROUND - PRESERVATIVE TREATMENT REQUIRED.
 - FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES AND INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL OF NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M4-06. THE FOLLOWING FIELD TREATMENTS SHALL BE USED:
 - BORED HOLES: HOLES FOR CONNECTORS OR BOLTS MAY BE TREATED BY PUMPING COAL TAR ROOFING CEMENT MEETING ASTM D5643 INTO HOLES USING A GREASE GUN OR SIMILAR DEVICE
 - EXTERIOR: COPPER NAPHTHENATE
 - INTERIOR: INORGANIC BORON PRESERVATIVES LIMITED TO USE IN APPLICATIONS NOT IN CONTACT WITH GROUND AND CONTINUOUSLY PROTECTED FROM LIQUID WATER

SAWN LUMBER

- FRAMING LUMBER SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:

SAWN LUMBER PROPERTIES

USE	SIZE	SPECIES	GRADE	REFERENCE
MUDSILLS	2 X 4	D.F.	STANDARD OR BETTER PRESSURE TREATED	2022 CBC 2303.1.9
	2 X 6 AND LARGER	D.F.	NO. 2 OR BETTER PRESSURE TREATED	
	2 X	REDWOOD	FOUNDATION GRADE	

HORIZONTAL FRAMING LUMBER

ROOF JOISTS AND RAFTERS	2x	D.F.	NO. 2	
FLOOR JOISTS	2X	D.F.	NO. 2	
HEADERS AND BEAMS	4X	D.F.	NO. 2	WCLB & WWPA
ANY OTHER HORIZONTAL	4 X 4 AND SMALLER	D.F.	NO. 2	
	6 X 6 AND LARGER	D.F.	NO. 1	

VERTICAL FRAMING LUMBER

TOP PLATES	2 X	D.F.	NO. 2	
STUDS	2 X 4 & 3 X 4	D.F.	STUD	WCLB & WWPA
	2 X 6 & 2 X 8	D.F.	NO. 2	
	4 X 4 & 4 X 6 POSTS	D.F.	NO. 2	
POSTS	6 X 6 & LARGER POSTS	D.F.	NO. 1	

ALL OTHER FRAMING LUMBER

ALL OTHER FRAMING LUMBER (UNO)	ALL SIZES	D.F.	STANDARD & BETTER	WCLB & WWPA

- FLOOR JOISTS SHALL BE GRADE STAMPED "S-DRY" WHICH INDICATES A MOISTURE CONTENT NOT EXCEEDING 19 PERCENT.
- ALL SOLE PLATES AND TOP PLATES SHALL BE GRADE STAMPED "KD" WHICH INDICATES KILN DRIED WITH A MOISTURE CONTENT NOT EXCEEDING 15 PERCENT.
- STUD WALLS SHOWN ON PLANS ARE NON-BEARING PARTITIONS WALLS, BEARING WALLS OR SHEAR WALLS BELOW THE FRAMING LEVEL, UNLESS NOTED OTHERWISE. STUDS SHALL BE SIZE AND SPACING AS NOTED IN THE DRAWINGS, SEE PLAN AND ARCHITECTURAL DRAWINGS, UNLESS OTHERWISE NOTED.
- MINIMUM FRAMING NAILING SHALL CONFORM TO CBC TABLE 2304.10.2. ALL NAILS SHALL BE COMMON WIRE NAILS. REDDRIIL NAIL HOLES TO 70% OF NAIL SHANK DIAMETER WHERE NAILING TENDS TO SPLIT WOOD.
- UNLESS OTHERWISE NOTED, ALL WOOD SILL PLATES UNDER BEARING, EXTERIOR, OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE BOLTED TO THE CONCRETE OR MASONRY WITH 5/8" Ø X 12" BOLTS W/ 0.229" X 3" X 3" PLATE WASHER (GALV) AT 4'-0" O.C. BEGINNING AT 9" O.C. MAXIMUM FROM EACH END OF THE PLATES. THE BOLTS SHALL EXTEND A MINIMUM OF 7" INTO THE CONCRETE OR MASONRY. POWDER DRIVEN PNIS AT 1/3 OF THE BOLT SPACING OR 24" O.C. MAXIMUM MAY BE SUBSTITUTED FOR THE ANCHOR BOLTS AT INTERIOR NON-SHEAR WALLS ONLY).
- ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED LUMBER WITH AWPA TREATMENT C2 USING EITHER ALKALINE QUAT (AQ TYPE B AND D), COPPER AZOLE (CBA-A, CA-B), OR SODIUM BORATES (SBK), ANCHOR BOLTS, FASTENERS, AND METAL FRAMING CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED TO A RATING OF G-185 PER ASTM A653.
- PROVIDE 2 STUDS UNDER ALL 4 X 10 AND LARGER BEAMS OR HEADERS AT SPANS 6 FEET OR LONGER, UNLESS OTHERWISE NOTED. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUD

REQUIRED VERIFICATION AND INSPECTIONS

WOOD CODE CHAPTER 17 AND REFERENCED 2018 NDS AND AWC SDPWS-2021			
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	CBC REFERENCE
3. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING LESS THAN OR EQUAL TO 4" OC. - WOOD SHEAR WALLS - WOOD DIAPHRAGMS - DRAG STRUTS - SHEAR PANELS - HOLD-DOWNS	---	X	1705.13.2
4. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING GREATER THAN 4" OC (NOT REQUIRED) - WOOD SHEAR WALLS - WOOD DIAPHRAGMS - DRAG STRUTS - SHEAR PANELS - HOLD-DOWNS	---	---	1705.13.2

SOILS CODE TABLE 1705.6			
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	---	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	---	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X	

CONCRETE CONSTRUCTION CODE TABLE 1705.3				
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	REFERENCED STANDARD	CBC REFERENCE
3. INSPECT ANCHORS CAST IN CONCRETE	---	X	ACI 318: 26.7	---
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS ^(a) (a) ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS (b) MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.c.	X	---	ACI 318: 26.7.1 ACI 318: 26.7.1	---

STATEMENT OF SPECIAL INSPECTIONS

- THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED PURSUANT TO SECTION 1704.3 OF THE CODE. THIS SECTION DETAILS BOTH REQUIRED SPECIAL INSPECTIONS AND TESTS INCLUDING TESTING PER SECTION 1705 OF THE CODE. THE FOLLOWING SHALL BE OBSERVED DURING THEIR IMPLEMENTATION:
 - GENERAL:
 - STRUCTURAL VERIFICATIONS, INSPECTIONS AND TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CODE AND/OR THE APPLICABLE REFERENCE STANDARD.
 - OWNER REQUIREMENTS:
 - THE OWNER OR OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN SECTION 1705 OF THE CODE AND IN THIS STATEMENT OF INSPECTIONS.
 - SPECIAL INSPECTOR QUALIFICATIONS:
 - THE SPECIAL INSPECTORS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. THE EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUANTITIES.
 - CONTRACTOR REQUIREMENTS:
 - SPECIAL INSPECTION IS IN ADDITION TO THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING SHALL OCCUR PRIOR TO SPECIAL INSPECTION AND REPORTS SHALL BE AVAILABLE TO THE SPECIAL INSPECTOR.
 - THE CONTRACTOR SHALL ENSURE THAT THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED REMAINS ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION.
 - ANY CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
 - SPECIAL INSPECTOR REPORT REQUIREMENTS:
 - THE SPECIAL INSPECTOR SHALL KEEP RECORD OF INSPECTIONS
 - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
 - REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
 - DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
 - IF NOT CORRECTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK.
 - A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

SHOP FABRICATION

- SHOP FABRICATION REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH CODE SECTION 1704.2.5. EXCEPTION: SHOP SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS DONE ON THE PREMISES OF FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK IN ACCORDANCE WITH CODE SECTION 1704.2.5.1. THE FOLLOWING ACCREDITATIONS MEET THE REQUIREMENTS OF THIS EXCEPTION:
 - STEEL BUILDINGS (OR STEEL ELEMENTS IN OTHER BUILDINGS)
 - FOR GENERAL STEEL BUILDINGS OR ELEMENTS THE FABRICATOR SHALL BE AN AISC CERTIFIED FABRICATOR IN ACCORDANCE WITH THE AISC CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATORS (AISC 201-04).
 - OTHER ACCREDITATION DEEMED ACCEPTABLE BY THE AUTHORITY HAVING JURISDICTION.
 - IF FABRICATION IS PERFORMED BY AN APPROVED FABRICATOR A CERTIFICATE OF COMPLIANCE MUST BE PROVIDED TO THE BUILDING INSPECTOR THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
 - IF FABRICATION IS NOT PERFORMED BY AN APPROVED FABRICATOR WELDING INSPECTION REPORTS MUST BE SUBMITTED TO THE BUILDING OFFICIAL BY AN APPROVED TESTING AGENCY.
 - NONDESTRUCTIVE TESTING (NDT) MAY BE PERFORMED BY THE FABRICATOR, HOWEVER THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.
 - WOOD BUILDINGS
 - WOOD STRUCTURAL PANELS (SHEATHING) SHALL BE IDENTIFIED BY THE APA TRADEMARK.

PRE-FABRICATED WOOD TRUSS NOTES

- THE DESIGN OF METAL PLATE CONNECTED WOOD TRUSSES SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - CODES AND STANDARDS:
 - THE GOVERNING CODE LISTED IN THE PROJECT GENERAL NOTES
 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-16)
 - NATIONAL DESIGN STANDARD FOR WOOD CONSTRUCTION AND SUPPLEMENT (ANSI/AWC NDS-2018)
 - SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC (AWC SDPWS-2021)
 - THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (ANSI/TPI 1-2014)
 - DESIGN CRITERIA:
 - TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM VERTICAL LOADS AND OTHER LOADS INDICATED ON THE CONSTRUCTION DOCUMENTS (ATTIC MECHANICAL UNITS, ETC.)
 ROOF TRUSS LOADING:
 ASPHALT SHINGLE W/ GYP CEILING:
 TOP-CHORD DEAD LOAD: 12.6 PSF * (11.5 PSF SUPERIMPOSED)
 BOT CHORD DEAD LOAD: 8.3 PSF (6.6 PSF SUPERIMPOSED)
 ROOF - LIVE LOAD: 20 PSF
 ASPHALT SHINGLE W/ STUCCO CEILING:
 TOP-CHORD DEAD LOAD: 12.6 PSF * (11.5 PSF SUPERIMPOSED)
 BOT CHORD DEAD LOAD: 12.7 PSF (11.1 PSF SUPERIMPOSED)
 ROOF - LIVE LOAD: 20 PSF

 DECKING CRITERIA:
 DEAD + LIVE LOAD: 1/240
 LIVE LOAD ONLY: 1/360

 *INCLUDES 4 PSF ALLOWANCE FOR PV PANELS
 - () INDICATES HORIZONTAL SEISMIC/WIND LOAD ON COLLECTOR TRUSSES. THE TRUSS DESIGNER SHALL DESIGN FOR THE TRUSSES FOR THE INDICATED HORIZONTAL LOAD ACTING IN BOTH THE TOP AND BOTTOM TRUSS CHORDS AND FOR THE TRANSFER OF THE FORCE TO THE CHORDS THROUGH THE WEB.
- CONTRACTOR REQUIREMENTS:
 - THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS LISTED IN SECTION 2.3.4 OF ANSI/TPI 1-2014 INCLUDING THE FOLLOWING:
 - MEANS AND METHODS: THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, PROGRAMS AND SAFETY IN CONNECTION WITH THE RECEIPT, STORAGE, HANDLING, INSTALLATION, RESTRAINING, AND BRACING OF THE TRUSSES. REFER TO THE GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES (BCS1-B1)
 - TRUSS INSTALLATION SHALL COMPLY WITH INSTALLATION TOLERANCES SHOWN IN BCS1-B1
 - TEMPORARY INSTALLATION RESTRAINT/BRACING FOR THE TRUSS SYSTEM AND THE PERMANENT TRUSS SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH BCS1-B2
 - CONSTRUCTION LOADING ON TRUSSES SHALL BE DONE IN ACCORDANCE WITH BCS1-B4.
 - TRUSS DAMAGE, JOBSITE MODIFICATIONS & INSTALLATION ERRORS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE EOR AND THE TRUSS DESIGNER. REFERENCE BCS1-B5.
 - SUBMIT THE DRAWINGS FROM THE TRUSS DESIGNER/MANUFACTURER TO THE BUILDING DEPARTMENT PRIOR TO FABRICATION FOR APPROVAL. A COPY OF THIS SUBMITTAL SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW OF GENERAL CONFORMANCE TO THE DESIGN INTENT. THE CONTRACTOR SHALL INCORPORATE THE TIME REQUIRED FOR THE SUBMITTAL TO BE REVIEWED, STAMPED AND APPROVED BY ALL PARTIES AND SHALL HAVE THE APPROVED TRUSS PLANS ON THE JOB SITE PRIOR TO FOUNDATION INSPECTION.
 - TRUSS DESIGNER REQUIREMENTS:
 - THE TRUSS DESIGNER SHALL MEET ALL THE REQUIREMENTS LISTED IN SECTION 2.3.5.5 OF ANSI/TPI 1-2014 INCLUDING THE FOLLOWING:
 - TRUSS DESIGNER SHALL SUPERVISE THE PREPARATION OF THE TRUSS DESIGN DRAWINGS WHICH SHALL CONTAIN THE INFORMATION LISTED IN SECTION 2.3.5.5 OF ANSI/TPI 1-2014. THIS INCLUDES ALL TRUSS TO TRUSS CONNECTIONS, AND DETAILS FOR THE "CALIFORNIA FILL" AREAS.
 - TRUSS DESIGNER SHALL COMPLY WITH THE REFERENCED CODE AND DESIGN CRITERIA ABOVE.
 - TRUSS DESIGNER SHALL SHOW ALL HANGERS, BRACING AND RESTRAINTS AS WELL AS METHOD OF RESTRAINT/BRACING ON THE TRUSS PLANS TO MEET ANY SEISMIC AND WIND REQUIREMENTS OF THE CODE.
 - SUBMIT TRUSS DESIGN DRAWINGS INCLUDING ALL RELEVANT DETAILS FOR THE FABRICATION OF THE TRUSSES AND PREPARE CALCULATIONS. ALL PLANS, DETAILS AND CALCULATIONS FOR THE TRUSSES SHALL BE STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER (CIVIL OR STRUCTURAL), LICENSED TO PRACTICE IN THE STATE OF CALIFORNIA.

WOOD STRUCTURAL PANELS (SHEATHING)

WOOD STRUCTURAL PANEL PROPERTIES						
USE	PLY	BOND CLASSIFICATION ^c	SHEATHING GRADE	PERFORMANCE RATING	SPAN RATING	REFERENCE ^d
ROOF	5	EXPOSURE 1	REFER TO TYPICAL DIAPHRAGM SCHEDULE		APA	2022 CBC 2303.1.5 (DOC PS 1-09 OR PS 2-10)
FLOOR	5	EXPOSURE 1			APA	
WALL ^g	5	EXPOSURE 1	REFER TO TYPICAL SHEAR WALL SCHEDULE		APA	

- TABLE NOTES:
- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN ACCORDANCE WITH THE FOLLOWING VOLUNTARY STANDARDS BY THE ENGINEERED WOOD ASSOCIATION (AWA):
 - VOLUNTARY PRODUCT STANDARD, STRUCTURAL PLYWOOD, PS 1-09
 - VOLUNTARY PRODUCT STANDARD, PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS, PS 2-10
 - WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY THE APA TRADEMARK INDICATING CONFORMANCE TO THE APPLICABLE VOLUNTARY STANDARD
 - WHERE PANELS ARE EXPOSED TO REPEATED WETTING AND REDRYING, LONG-TERM EXPOSURE TO WEATHER, OR CONDITIONS OF SIMILAR SEVERITY, "EXTERIOR" APA RATED PLYWOOD SHEATHING SHALL BE USED. C-D "EXPOSURE 1" APA RATED PLYWOOD SHEATHING (CDX) SHALL NOT BE USED FOR CONDITIONS INVOLVING LONG-TERM EXPOSURE TO WEATHER.
 - EXCEPTION: WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE OUTDOORS ON THE UNDERSIDE IS PERMITTED TO BE "EXPOSURE 1" TYPE.
 - WOOD STRUCTURAL PANELS TO BE USED AS SIDING SHALL COMPLY WITH ANS/APA PRP-210.
 - ORIENTED STRAND BOARD (OSB) WITH EQUIVALENT CLASSIFICATION AND RATINGS MAY BE USED IN LIEU OF PLYWOOD FOR WOOD STRUCTURAL PANEL WALL SHEATHING.
- TRANSPORTATION, STORAGE, AND HANDLING:
 - TRANSPORTATION
 - IN TRANSPORTING PANELS ON OPEN TRUCK BEDS, COVER THE BUNDLES WITH A TARP.
 - STORAGE
 - ALWAYS STORE THE PANELS UNDER COVER WHENEVER POSSIBLE
 - WHEN STORING PANELS OUTSIDE STACK THEM ON A LEVEL SURFACE ON TOP OF STRINGERS OR OTHER BLOCKING, THREE STRINGERS MINIMUM.
 - NEVER LEAVE PANELS IN CONTACT WITH THE GROUND
 - COVER THE STACK WITH A PLASTIC TARP, ENSURING THAT THE BUNDLE IS WELL VENTILATED TO PREVENT MILDEW.
 - IF MOISTURE ABSORPTION IS EXPECTED, CUT THE STEEL BAND TO PREVENT DAMAGE
 - KEEP SANDED OR OTHER APPEARANCE GRADE PANELS AWAY FROM HIGH TRAFFIC AREAS
 - HANDLING
 - ALWAYS PROTECT ENDS AND EDGES, ESPECIALLY TONGUE AND GROOVE PRODUCTS, FROM PHYSICAL DAMAGE.
 - ACCLIMATE THE PANELS FOR 24 HOURS MINIMUM BEFORE INSTALLATION BY STANDING THE PANELS ON EDGE WITH A GAP BETWEEN EACH TO ALLOW FOR AIR CIRCULATION OR PER MANUFACTURER'S RECOMMENDATIONS.
 - PLYWOOD ORIENTATION
 - ROOF AND FLOOR SHEATHING SHALL BE LAID WITH THE GRAIN OF THE OUTER PILES PERPENDICULAR TO THE FRAMING MEMBERS. SHALL BE CONTINUOUS OVER 2 JOIST BAYS MINIMUM AND END JOINTS SHALL BE JOINED OVER FRAMING AND STAGGERED. LEAVE A 1/8" GAP BETWEEN PANELS TO ALLOW FOR PANEL EXPANSION UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUF. REFER TO SPECIFIC DETAILS IN THE DRAWINGS FOR FURTHER PARAMETERS.
 - PLYWOOD OR OSB WALL SHEATHING MAY BE APPLIED VERTICALLY OR HORIZONTALLY. ALL END JOINTS BE JOINED OVER FRAMING AND STAGGERED.
 - BLOCKING:
 - ROOF: ALL ROOF SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS, WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
 - FLOOR: ALL FLOOR SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS, WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
 - WALLS: ALL SHEAR WALLS SHALL BE FULLY BLOCKED AT PLYWOOD EDGES.
 - FASTENERS
 - USE SHEATHING NAILS SAME GAUGE AS COMMON WIRE NAILS WITH LENGTHS AT LEAST EQUAL TO SHEATHING THICKNESS PLUS REQUIRED PENETRATION PER AWC SDPWS TABLE 4.2A OR 4.3A (AS REQUIRED).
 - EQUIVALENT PNEUMATIC DRIVE NAILS OR STAPLES MAY BE USED IF FASTENER MANUFACTURER HAS RECEIVED ICC OR IAPMO APPROVAL FOR THE INTENDED USE. FASTENERS TO BE SUBSTITUTED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE OF COMMON NAIL SPECIFIED.
 - USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD OR OSB SHEATHING. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
 - TYPICAL NAILING SHALL BE 10D AT 4' O.C. AT ALL SUPPORTED EDGES AND OVER SHEAR WALLS, AND 10D AT 12' O.C. AT ALL INTERMEDIATE SUPPORTS, UNLESS OTHERWISE NOTED. SEE PLANS AND REFER TO SHEAR WALL SCHEDULE.



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CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
GENERAL NOTES, SPECIAL INSPECTION & TESTS



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FOUNDATION PLAN NOTES

- REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-103
TESTING AND INSPECTION	S-103
TYPICAL CONCRETE DETAILS	S-301
TYPICAL WOOD DETAILS	S-401 - S-404
- SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS. REFERENCE FINISHED FLOOR ELEVATION = 0'-0" CORRESPONDS TO FINISHED FLOOR ELEVATION.
- ALL DIMENSIONS SHOWN ARE FROM FACE OF CONCRETE/MASONRY. FACE OF SHEATHING, OR CENTERLINE OF COLUMN. ALL COLUMNS ARE CENTERED IN STUD WALLS. UNO.
- FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR ANY EMBEDDED ITEMS AND ALL EXTERIOR CONCRETE PAVING.
- SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS.
- SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
- FOR TYPICAL SLAB-ON-GRADE REQUIREMENTS, INCLUDING SLAB JOINTS, SEE DETAIL 31/S-301.
- ALL POSTS IN 4" WALLS SHALL BE 4x4. UNLESS NOTED OTHERWISE
ALL POSTS IN 6" WALLS SHALL BE 6x6. UNLESS NOTED OTHERWISE
- PLATE WASHERS ARE REQUIRED FOR ALL SILL PLATE ANCHOR BOLTS. REFER TO 34/S-402 FOR PLATE WASHER REQUIREMENTS AT SHEAR WALLS.
- ALL HOLD-DOWN ANCHOR NUTS SHALL BE TIGHTENED JUST PRIOR TO COVERING.
- ALL BOLT HOLES IN WOOD MEMBERS, SHALL BE DRILLED A MAXIMUM OF 1/8" OVERSIZED. INSPECTOR TO VERIFY.
- THE BUILDING PAD SHALL BE PREPARED AS OUTLINED IN DETAIL S3/S-301. THE BUILDING OFFICIAL SHALL REQUIRE PAD CERTIFICATION BY A GEOTECHNICAL ENGINEER AT THEIR DISCRETION.
- BOTTOM OF FOOTING SHALL BE, UNLESS DEEPER FOUNDATIONS ARE REQUIRED BY THE BUILDING OFFICIAL:
 - 18" BELOW PAD OR ADJACENT GRADE AT PERIMETER, WHICHEVER IS DEEPER. UNO.
 - 18" BELOW PAD OR ADJACENT GRADE AT INTERIOR GRADE BEAMS, WHICHEVER IS DEEPER. UNO.
 NOTE: FOOTING MUST BE DEEPEMED LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE ANCHOR BOLT HOLD-DOWN EMBED DEPTHS.

SYMBOL LEGEND



SCHEDULES

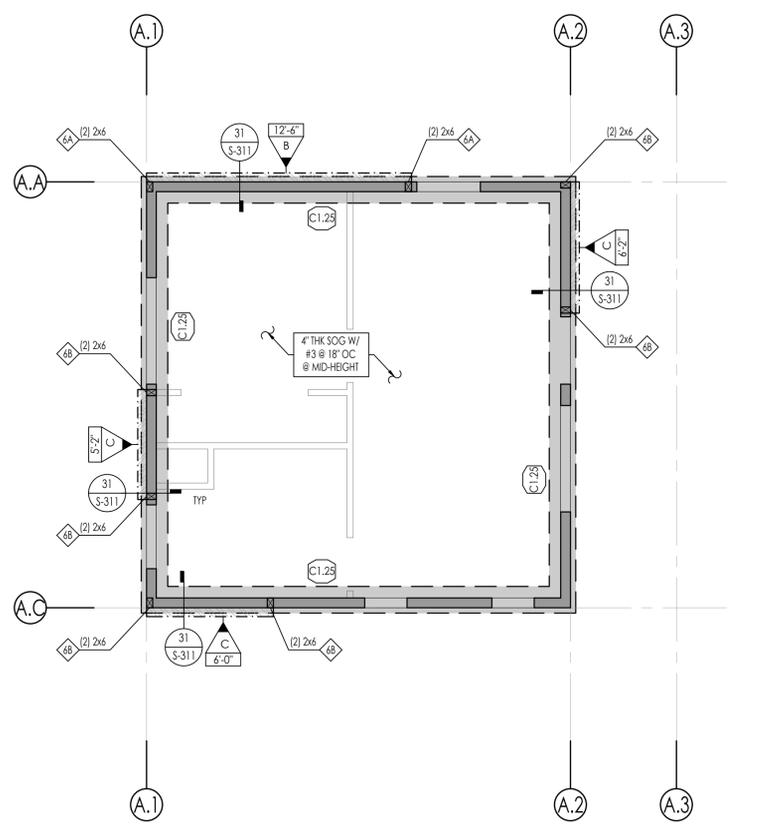
HOLD-DOWN SCHEDULE				
SPECIFIES HOLD-DOWN/STRAP DETAIL	INDICATES HOLD-DOWN/STRAP TYPE	DETAIL		
6x		12/S-311		
INDICATES SIMPSON SSTB HOLD-DOWN TO: CONC FOUNDATION:				

CONTINUOUS FOOTING SCHEDULE					
MARK	WIDTH	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL
C1.23	1'-3"	SEE NOTE 16	(2) #5 T&B	#3 @ 12" OC, BOT	31/S-311

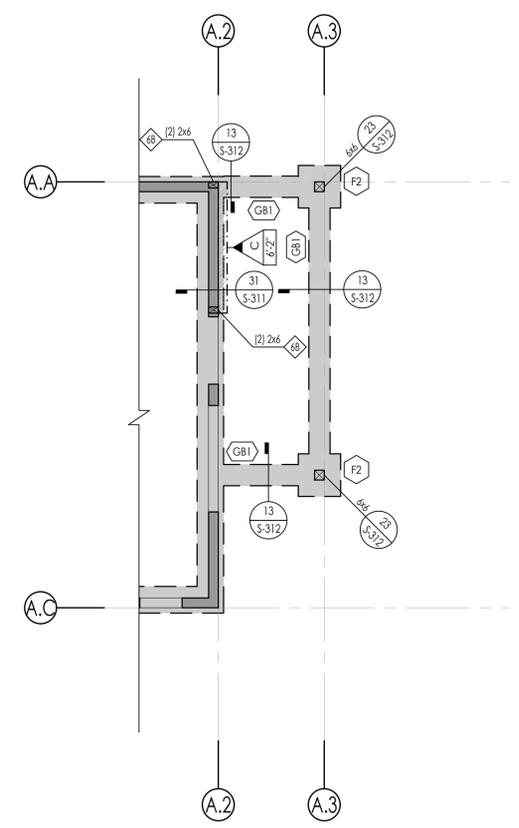
GRADE BEAM SCHEDULE						
TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL
G81	1'-0"	1'-0"	SEE NOTE 16	(2) #4 @ TOP (2) #4 @ BOT	#3 @ 24" OC	13/S-312

PAD FOOTING SCHEDULE							
TYPE	WIDTH	LENGTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	TOP REINF	BOT REINF	DETAIL
F2	2'-0"	2'-0"	1'-6"	SEE NOTE 16	(3) #5, EW	(3) #5 @ EW	23/S-312

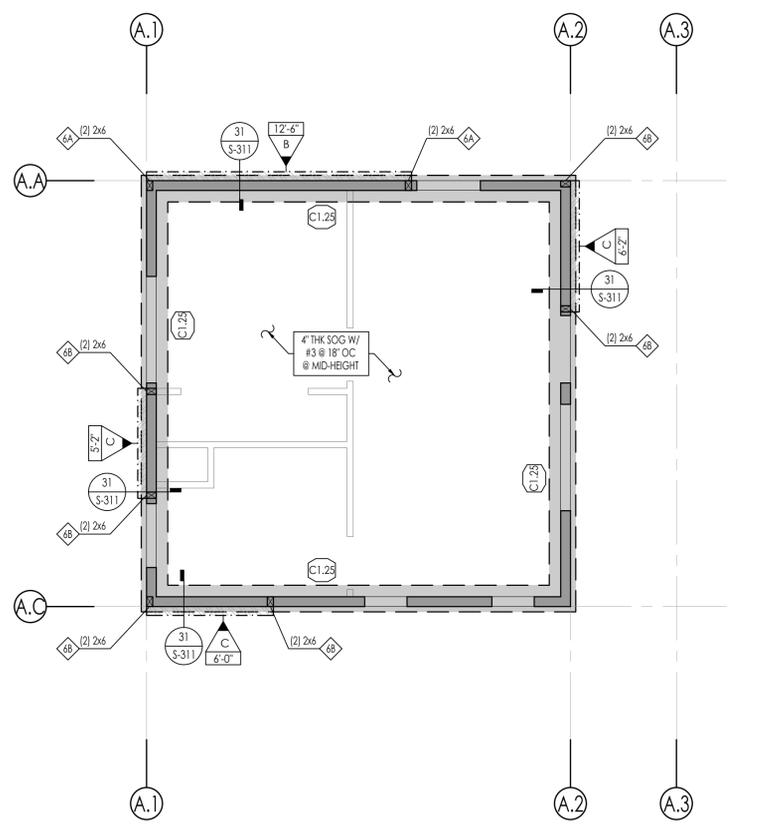
NOTE: FOOTING MUST BE DEEPEMED LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE AB HOLD-DOWN EMBED DEPTHS.



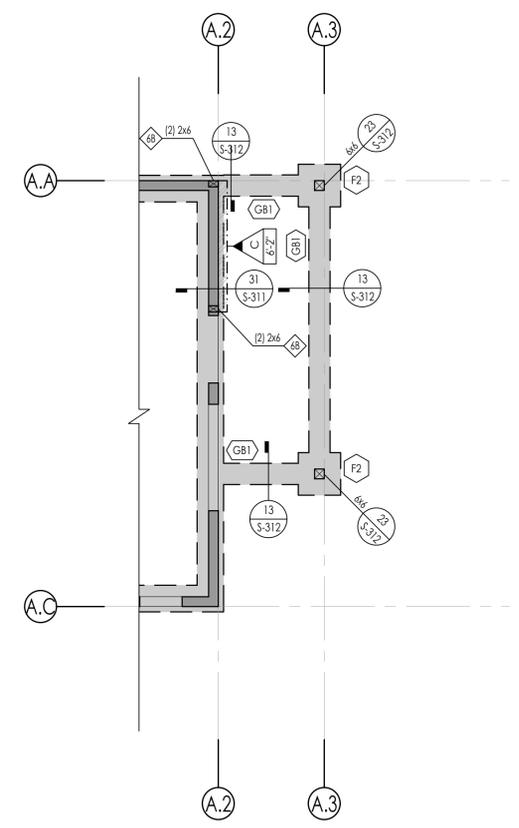
1 FOUNDATION PLAN - CALIFORNIA RANCH
SCALE: 1/4" = 1'-0"



1 FOUNDATION PLAN - CALIFORNIA RANCH - PORCH OPTION
SCALE: 1/4" = 1'-0"



1 FOUNDATION PLAN - CALIFORNIA RANCH
SCALE: 1/4" = 1'-0"



1 FOUNDATION PLAN - CALIFORNIA RANCH - PORCH OPTION
SCALE: 1/4" = 1'-0"

\\cnp\vm\on-site\2020\2277-01-C121-Carpinteria-Downtown-Design-Overlay-82-Funded-Structural\ConDoc\Sheet\Plan\1\2277-01-C121 - Plan 1.dwg, 31-201, May 09, 2023, 2:07pm, Alopez

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
FOUNDATION PLAN

DATE
05/09/2023

SHEET
S1-201



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ROOF FRAMING NOTES

- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING. ALL DIMENSIONS TO BE VERIFIED PRIOR TO CONSTRUCTION:
 - A. GRID DIMENSIONS AND HORIZONTAL CONTROL
 - B. ALL DIMENSIONS, ELEVATIONS, FINISH SURFACE, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC
 - C. LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS
 - D. ALL NON STRUCTURAL WALLS
- REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-103
TESTING AND INSPECTION	S-103
TYPICAL CONCRETE DETAILS	S-301
TYPICAL WOOD DETAILS	S-401 - S-404
- SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS.
- SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, DUCTS AND OTHER ROOF PENETRATIONS. FOR ROOF PENETRATIONS NOT SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 23/S-403 FOR TYPICAL OPENINGS, UNO.
- ALL POSTS IN 6" WALLS SHALL BE 6x6, UNLESS NOTED OTHERWISE.

TYPICAL WALL FRAMING SHALL BE:
 2x6 @ 16" OC @ ALL EXTERIOR WALLS, UNO
 2x6 @ 16" OC @ ALL INTERIOR BEARING WALLS, UNO
 2x4 @ 16" @ ALL INTERIOR NON-BEARING WALLS, UNO
- ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PORTION WALL DETAIL 43/S-401, UNO.
- DIAPHRAGM TYPES:
ALL ROOF DIAPHRAGMS SHALL BE TYPE A, UNO REFER TO 12/S-403
- ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (BN), STGR.
- TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN CONCURRENCE AND APPROVAL OF A REGISTERED DESIGN PROFESSIONAL.
- ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G. HVAC EQUIPMENT, WATER HEATER) SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.

SYMBOL LEGEND

- INDICATES SHEAR WALL TYPE AND LENGTH. SEE SCHEDULE ON 13/S-402
- INDICATES HEADER @ OPENING. REFER TO 32/S-401 FOR HEADER SIZE, UNO ON PLANS
- INDICATES TOP PLATE SPLICE NAILING PER 33/S-403. NOTE THAT NAILING APPLIES TO ENTIRE LENGTH OF TOP PLATE. PROVIDE TYPE (C) SPLICE, UNO
- INDICATES STRAP PER 34/S-405, UNO

SCHEDULES

HOLDOWN SCHEDULE		
SPECIFIES HOLDOWN/STRAP DETAIL		INDICATES HOLDOWN/STRAP TYPE
		INDICATES SIMPSON 558B HOLDDOWN TO: CONC FOUNDATION: 12/S-311

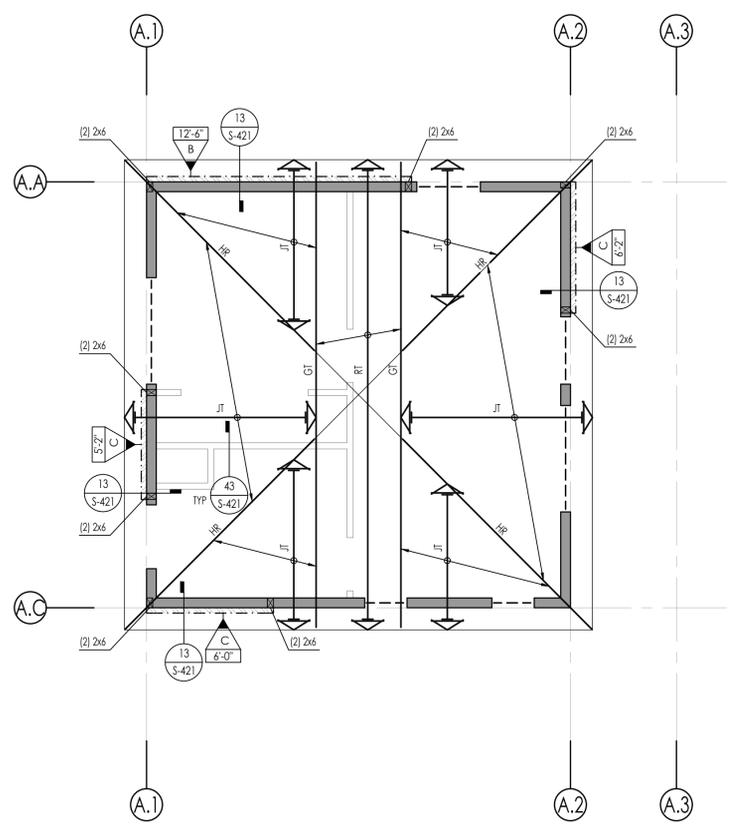
ROOF BEAM SCHEDULE		
MARK	SIZE	REMARKS
B1	6x6	
B2	4x8	

PREFABRICATED ROOF TRUSS

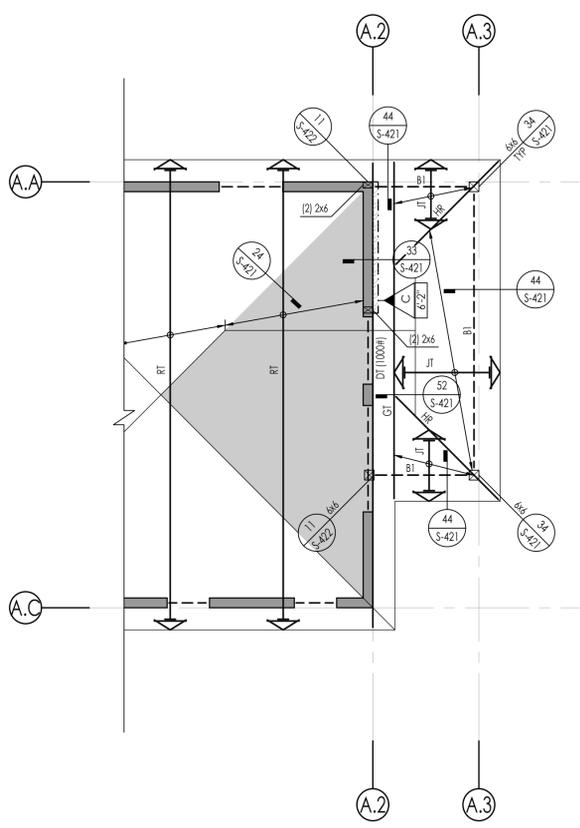
1. FOR PREFABRICATED ROOF TRUSS NOTES SEE NOTES ON SHEET S-103

ROOF TRUSS SCHEDULE		
MARK	DESCRIPTION	REMARKS
RT	ROOF TRUSS (COMMON)	24" OC MAX
SGT	STRUCTURAL GABLE TRUSS	
MT	MONO PITCH TRUSS	24" OC MAX
JT	JACK TRUSS	24" OC MAX
VJT	VALLEY JACK TRUSS	24" OC MAX
CJT	CORNER JACK TRUSS	
GT	GIRDER TRUSS	
MGF	MONO PITCH GIRDER TRUSS	
DT (#*)	DRAG TRUSS	
CGT	CALIFORNIA GIRDER TRUSS	
HR	HIP RAFTER / JACK RAFTER	
CHT	CALIFORNIA HIP TRUSS	24" OC MAX
SCT	SCISSOR TRUSS	24" OC MAX, CEILING SLOPE PER ARCH

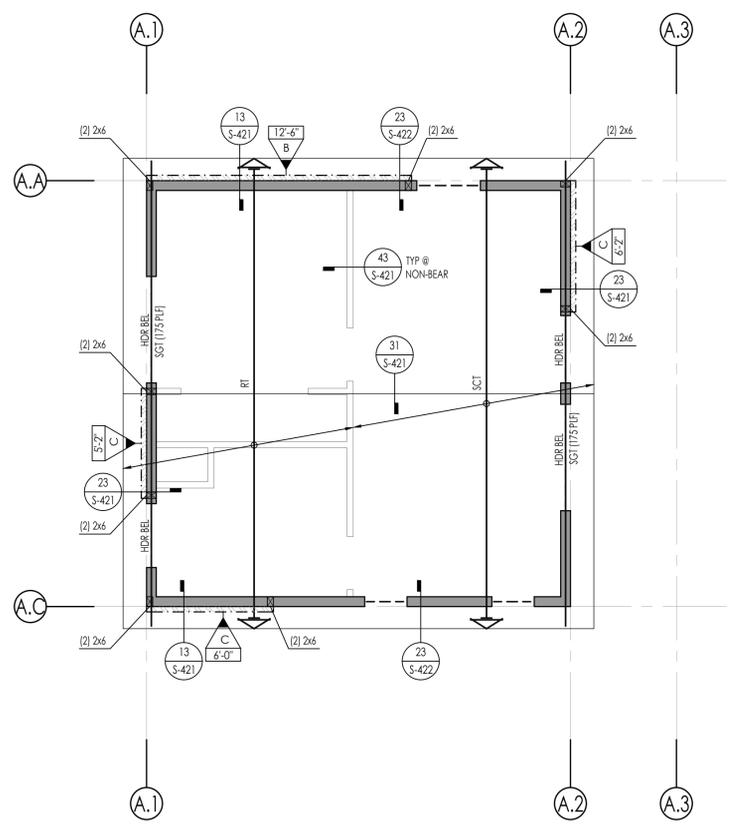
(#*) - EQUALS DRAG FORCE IN LBS, DRAG FORCE & AT A FACTORED LEVEL (0.7E) DRAG FORCES CALCULATED IN ACCORDANCE WITH ASCE 7-16 12.10.1.1. IN STRUCTURES ENTIRELY BRACED BY LIGHT FRAME SHEAR WALLS OR PORTIONS THEREOF, DRAG MEMBERS SHALL BE DESIGNED TO RESET FORCES USING THE LOAD COMBINATIONS OF ASCE 7-16 SECTION 12.4.2.3 IN ALL OTHER STRUCTURES DRAGS SHALL INCLUDE THE EFFECT OF OVER STRENGTH PER ASCE 7-16 12.4.3.2



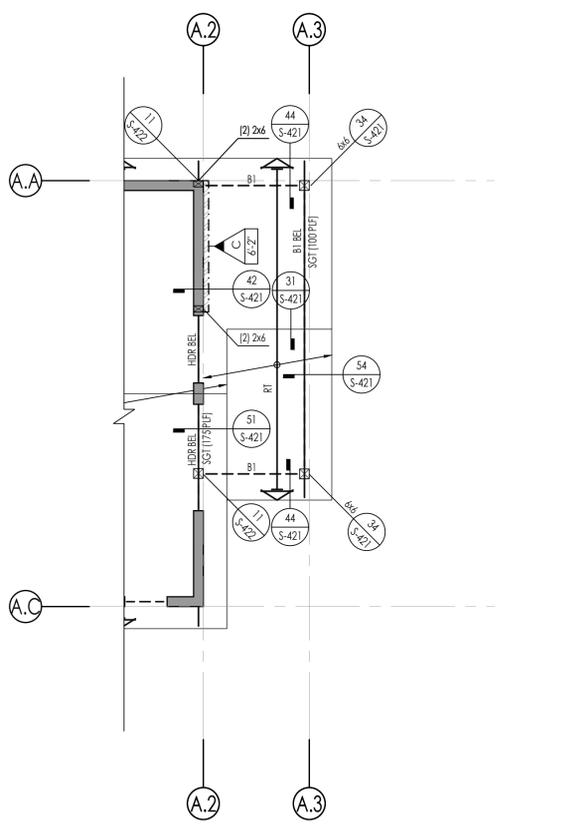
1 ROOF FRAMING PLAN - CALIFORNIA RANCH
SCALE: 1/4" = 1'-0"



1 ROOF FRAMING PLAN - CALIFORNIA RANCH - PORCH OPTION
SCALE: 1/4" = 1'-0"



1 ROOF FRAMING PLAN - COASTAL COTTAGE
SCALE: 1/4" = 1'-0"



1 ROOF FRAMING PLAN - COASTAL COTTAGE - PORCH OPTION
SCALE: 1/4" = 1'-0"

CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
ROOF FRAMING PLAN

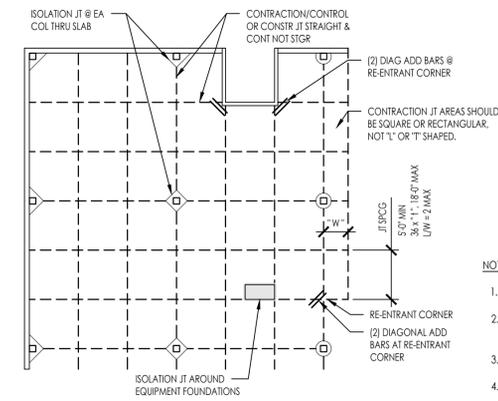
DATE
05/09/2023

SHEET

S1-202

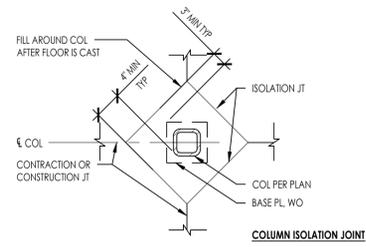


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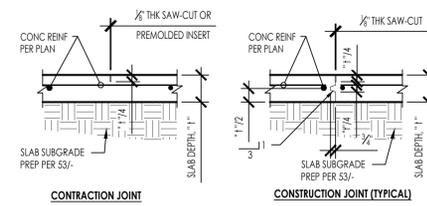


NOTES:

- IF SAW CUT CONTRACTION OR CONTROL JOINT IS USED, SAW-CUT WITHIN 24 HOURS. EARLY ENTRY SAWS MAY BE USED WITHIN 1-4 HOURS OF POUR, AND CONVENTIONAL SAWS 4-12 HOURS OF POUR DEPENDING ON WEATHER.
- FILL CONTRACTION JOINT WITH AN ELASTOMERIC JOINT COMPOUND RATED FOR ITS USE. FOR INDUSTRIAL FLOORS SUBJECT TO HARD WHEELED TRAFFIC, USE SEALANTS RATED FOR SUCH APPLICATIONS BY THE MANUFACTURER.
- DOWELS IN INDUSTRIAL FLOOR APPLICATIONS SHOULD BE SMOOTH ALIGNED, AND SUPPORTED SO THEY WILL REMAIN PARALLEL IN BOTH HORIZONTAL AND VERTICAL PLANES DURING PLACING AND FINISHING.
- IN STEEL AND/OR CONC. BUILDINGS DO NOT POUR DIAMOND UNTIL STRUCTURAL STEEL AND CONCRETE ABOVE HAS BEEN INSTALLED.

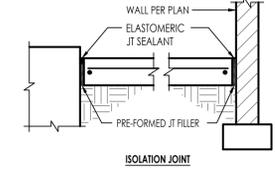


COLUMN ISOLATION JOINT

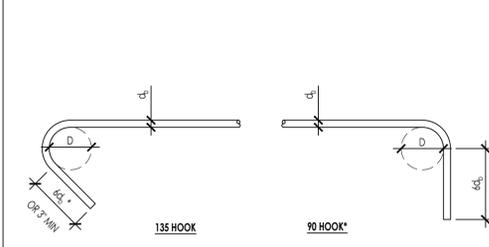


CONTRACTION JOINT

CONSTRUCTION JOINT (TYPICAL)

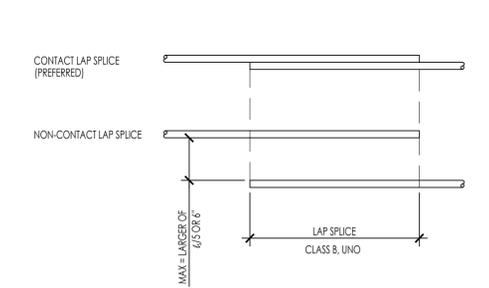


ISOLATION JOINT



BAR SIZE	D
#3	1 1/2"
#4	2"
#5	2 1/2"

* PROVIDE 10dL EXTENSIONS IN LIEU OF 4dL AT ALL FRAME COLUMNS, GIRDERS, SHEAR WALLS AND SHEAR WALL BOUNDARY MEMBERS



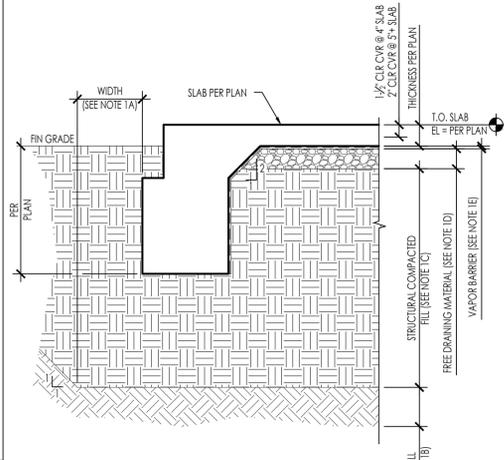
REINFORCING TENSION DEVELOPMENT LENGTH AND LAP SPICE SCHEDULE

BAR SIZE	DEVELOPMENT LENGTH l_d (CLASS B LAP SPICE)				LAP SPICE l_s (CLASS B LAP SPICE)			
	f_c (psi)				f_c (psi)			
	2,500	3,000	4,000	5,000	2,500	3,000	4,000	5,000
#3	1'-6"	1'-5"	1'-3"	2'-0"	1'-10"	1'-7"	1'-7"	1'-7"
#4	2'-0"	1'-10"	1'-7"	2'-8"	2'-5"	2'-5"	2'-5"	2'-1"
#5	2'-6"	2'-4"	2'-0"	3'-3"	3'-0"	3'-0"	3'-0"	2'-7"
#6	3'-0"	2'-9"	2'-5"	3'-11"	3'-7"	3'-7"	3'-7"	3'-2"
#7	4'-5"	4'-0"	3'-6"	5'-9"	5'-2"	5'-2"	5'-2"	4'-6"
#8	5'-0"	4'-7"	4'-0"	6'-6"	5'-11"	5'-11"	5'-11"	5'-2"
#9	5'-8"	5'-2"	4'-6"	7'-4"	6'-9"	6'-9"	6'-9"	5'-10"
#10	6'-5"	5'-10"	5'-1"	8'-3"	7'-7"	7'-7"	7'-7"	6'-7"
#11	7'-1"	6'-6"	5'-7"	9'-2"	8'-5"	8'-5"	8'-5"	7'-3"

- NOTES:**
- VALUES ABOVE ARE FOR REINFORCEMENT WITH THE FOLLOWING PARAMETERS:
 - GRADE 60 REINFORCEMENT
 - NORMAL WEIGHT CONCRETE
 - FOR LIGHTWEIGHT CONCRETE MULTIPLY THE VALUES ABOVE BY 1.3
 - NON-EPOXY COATED REINFORCEMENT
 - HORIZONTAL BARS WITHOUT 12" OF CONCRETE BELOW (BOTTOM BARS), AND VERTICAL BARS
 - FOR TOP BARS WITH 12" OR MORE OF CONCRETE BELOW THE BAR MULTIPLY THE VALUES ABOVE BY 1.3
 - CLEAR SPACING NOT LESS THAN d_b , CLEAR COVER NOT LESS THAN d_b , AND STIRRUPS THROUGH l_d NOT LESS THAN MIN OR
 - FOR OTHER SPACING AND COVER CONDITIONS MULTIPLY THE VALUES ABOVE BY 1.5
 - REINFORCEMENT NOT IN SHEAR WALLS
 - FOR REINFORCEMENT IN SHEAR WALLS MULTIPLY THE VALUES ABOVE BY 1.25
 - THE MULTIPLIERS LISTED IN NOTE 1 ABOVE ARE CUMULATIVE INCREASES IN DEVELOPMENT/LAP SPICE LENGTH.
 - ALL LAP SPICES REFERENCED IN THE PLANS SHALL BE CLASS B UNLESS NOTED OTHERWISE.
 - WHEN REINFORCING BARS OF TWO SIZES ARE LAP-SPLICED IN TENSION, USE THE LARGER OF THE TENSION CLASS B, LAP SPICE LENGTH (l_s) OF THE SMALLER BAR, AND THE CLASS A, TENSION DEVELOPMENT LENGTH (l_d) OF THE LARGER BAR.

SLAB ON GRADE JOINTS

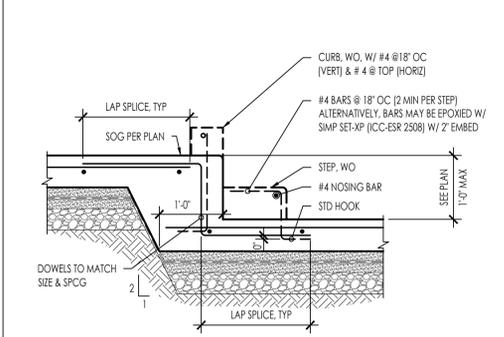
2277-01-C101 - S301



- NOTES:**
- PREPARATION OF THE SLAB SUBGRADE SHALL BE BASED ON THE GEOTECHNICAL INVESTIGATION REPORT AS REFERENCED IN THE FOUNDATION GENERAL NOTES, THE FOLLOWING INFORMATION IS FOR REFERENCE ONLY.
 - OVER-EXCAVATION SHALL EXTEND 5 FEET BEYOND PERIMETER FOUNDATION, TO PROPERTY LINES OR EXISTING IMPROVEMENTS, WHICHEVER IS LEAST.
 - NATIVE MATERIALS
 - SHALL BE OVER-EXCAVATED 36" BELOW (E) GRADE OR 18" BELOW BOTTOM OF FOOTINGS, WHICHEVER IS GREATEST.
 - THE EXPOSED SURFACE SHALL BE SCARIFIED TO A DEPTH OF 6", MOISTURE CONDITIONED TO 3 PERCENT OVER OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT (ASTM D1557)
 - ENGINEERED COMPACTED FILL
 - REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR RECOMMENDATIONS FOR STRUCTURAL FILL
 - STRUCTURAL FILL SHALL BE PLACED IN HORIZONTAL LAYERS, EACH APPROXIMATELY 8" THICK BEFORE COMPACTATION, AND SHOULD BE CONDITIONS WITH WATER TO PRODUCE A SOIL WATER CONTENT NEAR OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT (ASTM D1557)
 - 4" THICK, CLEAN FREE-DRAINING MATERIAL SUCH AS 1/2" COARSE AGGREGATE
 - REFER TO GEOTECH REPORT AND ARCH DRAWINGS FOR VAPOR BARRIER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS FOR SEALING OF PENETRATIONS, JOINTS AND EDGES.
 - VAPOR BARRIER IS NOT TO BE PUNCTURED DURING CONSTRUCTION OF SLAB ON GRADE.
 - 2" THICK OPTIONAL SAND LAYER, SHALL BE LIGHTLY MOISTENED PRIOR TO PLACING CONCRETE.

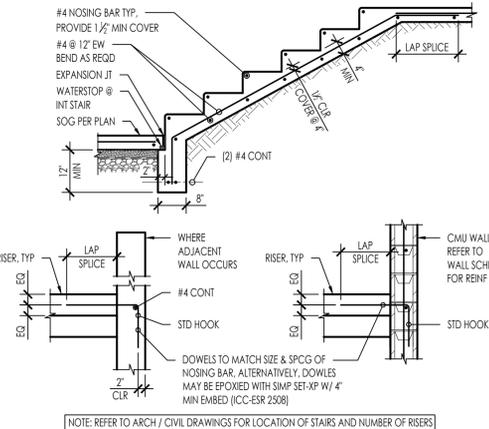
SLAB ON GRADE EDGE AND SUBGRADE PREP

2277-01-C101 - S301



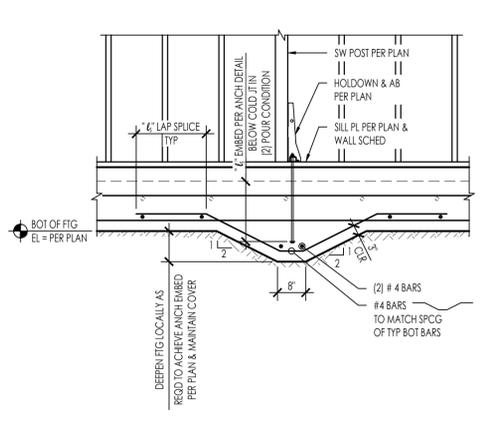
STEP IN CONCRETE SLAB ON GRADE

2277-01-C101 - S301



CONC STAIRS ON GRADE

2277-01-C101 - S301

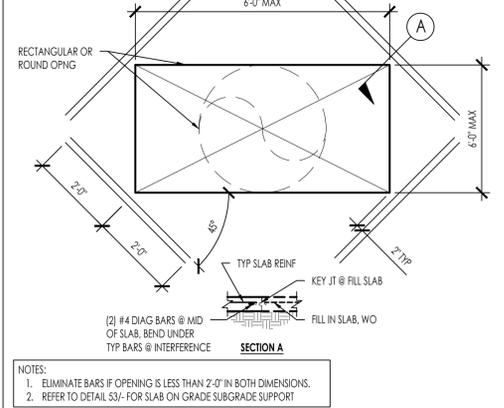


DEEPEMED FTG @ ANCHOR BOLT

2277-01-C101 - S301

REINF TIES AND STIRRUPS

2277-01-C101 - S301

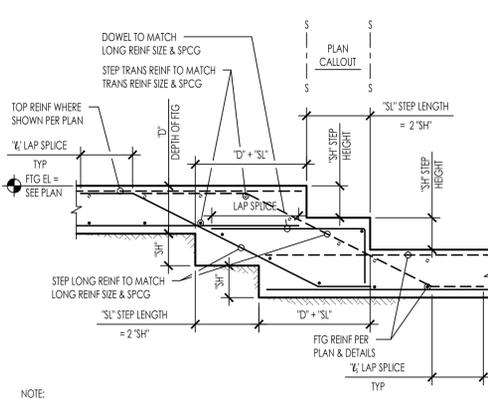


SOG OPENING

2277-01-C101 - S301

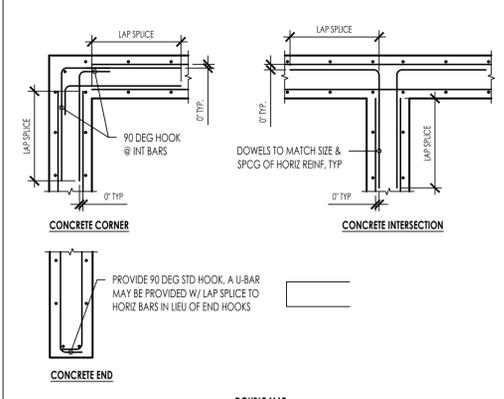
STEP FOOTING

2277-01-C101 - S301



STEP FOOTING (BOTTOM ONLY)

2277-01-C101 - S301

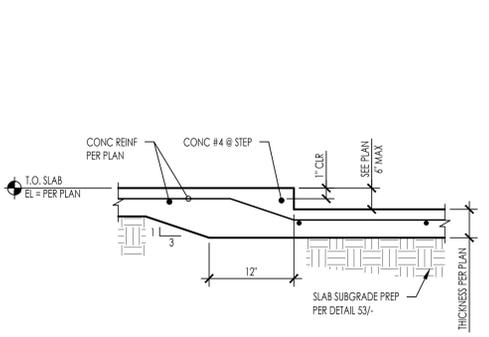


CONC REINF @ INTERSECTION

2277-01-C101 - S301

SLEEVE THROUGH FOUNDATION (SLAB TURN-DOWN)

2277-01-C101 - S301

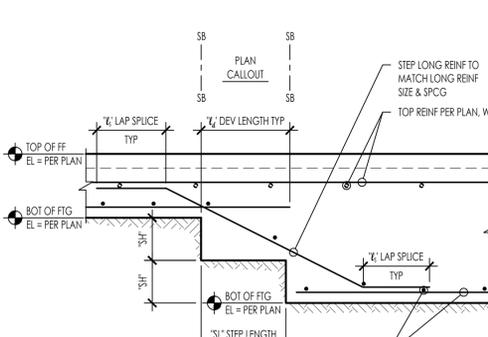


SLAB ON GRADE DEPRESSION

2277-01-C101 - S301

STEP FOOTING

2277-01-C101 - S301

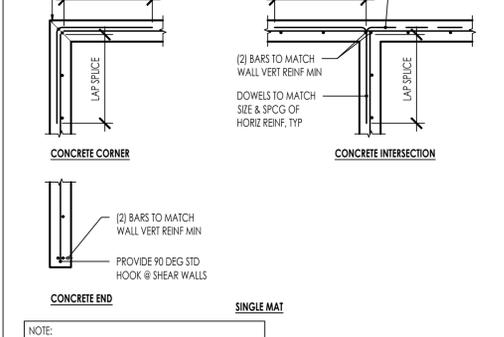


STEPPED FOOTING (BOTTOM ONLY)

2277-01-C101 - S301

CONC REINF @ INTERSECTION

2277-01-C101 - S301

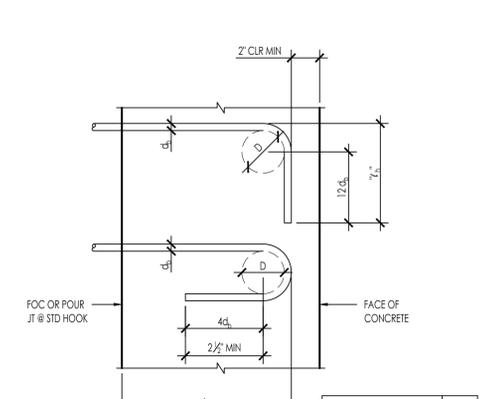


CONC REINF @ INTERSECTION

2277-01-C101 - S301

REINF DEVELOPMENT LENGTH AND SPLICES

2277-01-C101 - S301



REINF HOOK DEVELOPMENT LENGTH AND BENDS

2277-01-C101 - S301

BAR SIZE	D	STANDARD HOOK DEVELOPMENT LENGTH l_{dh}		
		NORMAL WEIGHT		
		2,500	3,000	4,000
#3	2 1/4"	6"	0'-9"	0'-9"
#4	3"	8"	1'-0"	0'-11"
#5	3 3/4"	10"	1'-3"	1'-2"
#6	4 1/2"	12"	1'-6"	1'-5"
#7	5 1/4"	1'-2"	1'-9"	1'-8"
#8	6"	1'-4"	2'-0"	1'-10"
#9	9 1/2"	1'-7 1/2"	2'-3"	2'-1"
#10	10 3/4"	1'-10"	2'-7"	2'-4"
#11	12"	2'-0 1/2"	2'-10"	2'-7"

- NOTES:**
- ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
 - MINIMUM SIDE COVER = 2d.
 - FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTHS IN SCHEDULE BY 1.3.

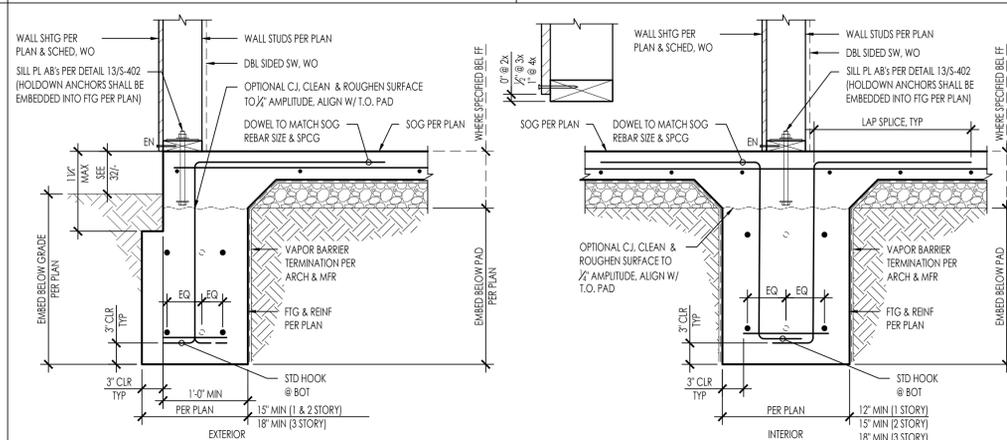
CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
TYPICAL CONCRETE DETAILS

DATE
05/09/2023
SHEET

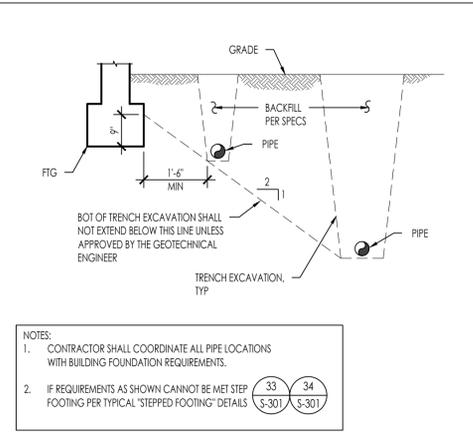
S1-301



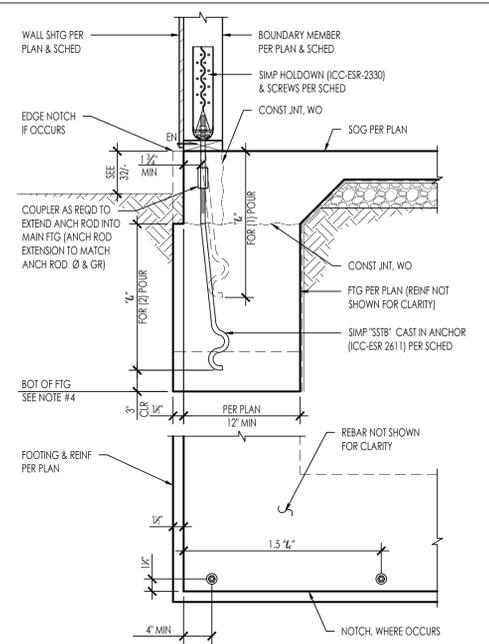
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51 CONTINUOUS WALL FOOTING
2277-01-C101 - S311

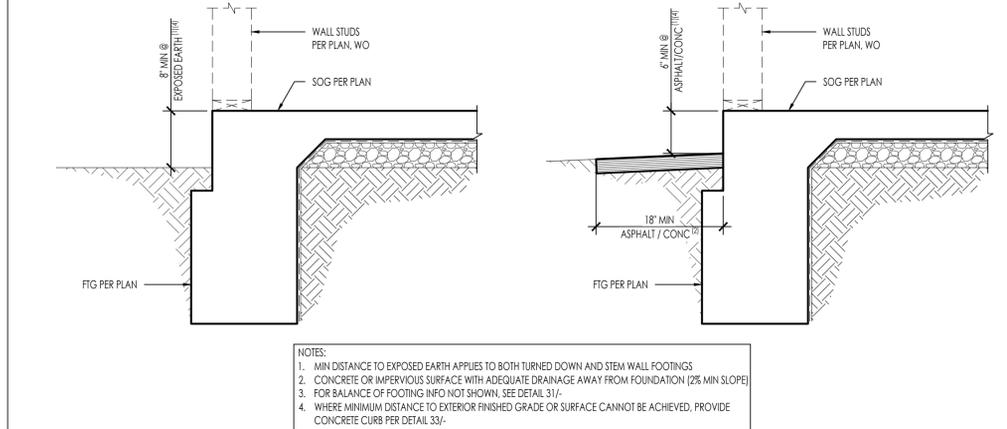


31 PIPES PARALLEL TO FOOTINGS
2277-01-C101 - S311

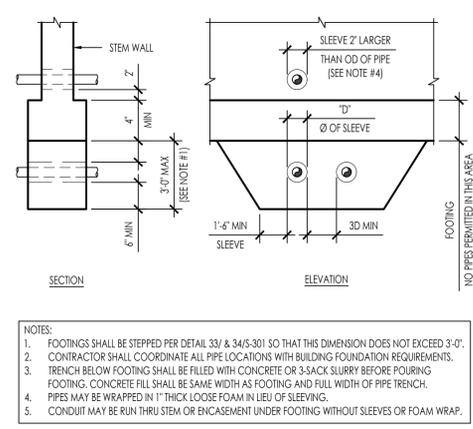


TYPE	HOLDOWN	ANCHOR	DIA (IN)	FASTENERS	BOUNDARY MEMBER MIN THICKNESS (IN)	MIN EMBED (IN)	ALLOWABLE LOADS (KIP)	
							CORNER	MIDWALL
3A	HDU4-SDS2.5	SSB16		10-SDS 7/8" x 2 1/2"	3	12 3/4"	3,780	3,780
3B	HDU5-SDS2.5	SSB20	3/4"	14-SDS 7/8" x 2 1/2"	3	16 3/4"	4,785	4,785
3C	HDU5-SDS2.5	SSB24		14-SDS 7/8" x 2 1/2"	3	20 3/4"	5,645*	5,645*
4D	HDQ8-SDS3	SSB28	3/2"	20-SDS 7/8" x 3"	4 1/2"	24 1/4"	9,230*	9,230*

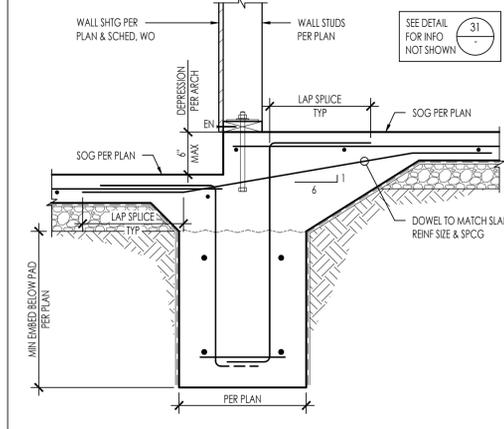
- MINIMUM EDGE DISTANCE IS SHOWN ABOVE. ANCHOR LOCATIONS PER PLAN
- MINIMUM ANCHOR TO ANCHOR SPACING IS 3'L
- * = CAPACITY LIMITED BY HOLDOWN
- DEEPEN FOOTING AT HOLDOWN ANCHOR AS REQ'D PER DETAIL 32/-



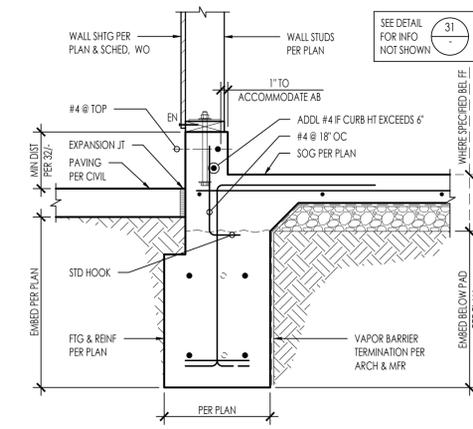
52 MINIMUM DISTANCE FROM GRADE TO WOOD FRAMING
2277-01-C101 - S311



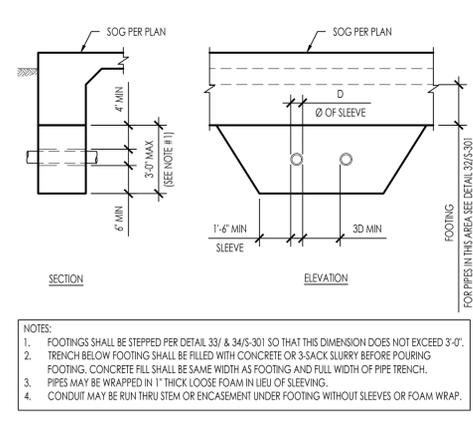
22 PIPES PERPENDICULAR TO FOOTINGS W/ STEM WALL
2277-01-C101 - S311



53 SOG DEPRESSION @ FTG
2277-01-C101 - S311



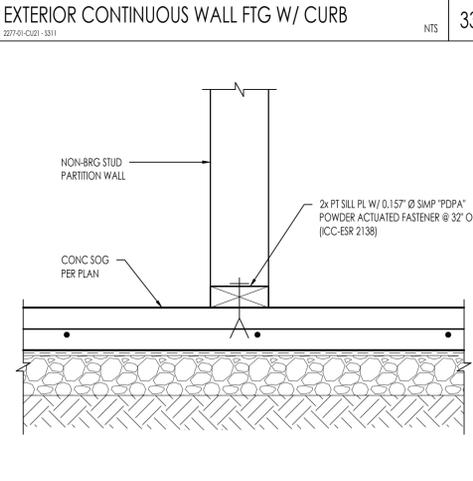
43 EXTERIOR CONTINUOUS WALL FTG W/ CURB
2277-01-C101 - S311



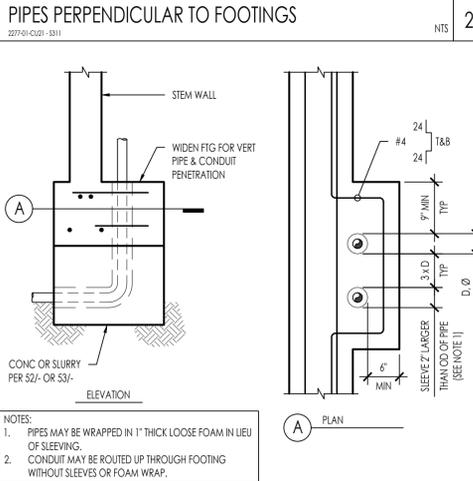
23 PIPES PERPENDICULAR TO FOOTINGS
2277-01-C101 - S311



54 NON-BEARING WALL ANCHORAGE @ SOG
2277-01-C101 - S311



34 TYPICAL VERT PIPES OR COND THROUGH FOOTING
2277-01-C101 - S311



24 TYPICAL VERT PIPES OR COND THROUGH FOOTING
2277-01-C101 - S311



13 SSB ANCHOR & HOLDOWN @ FOUNDATION
2277-01-C101 - S311

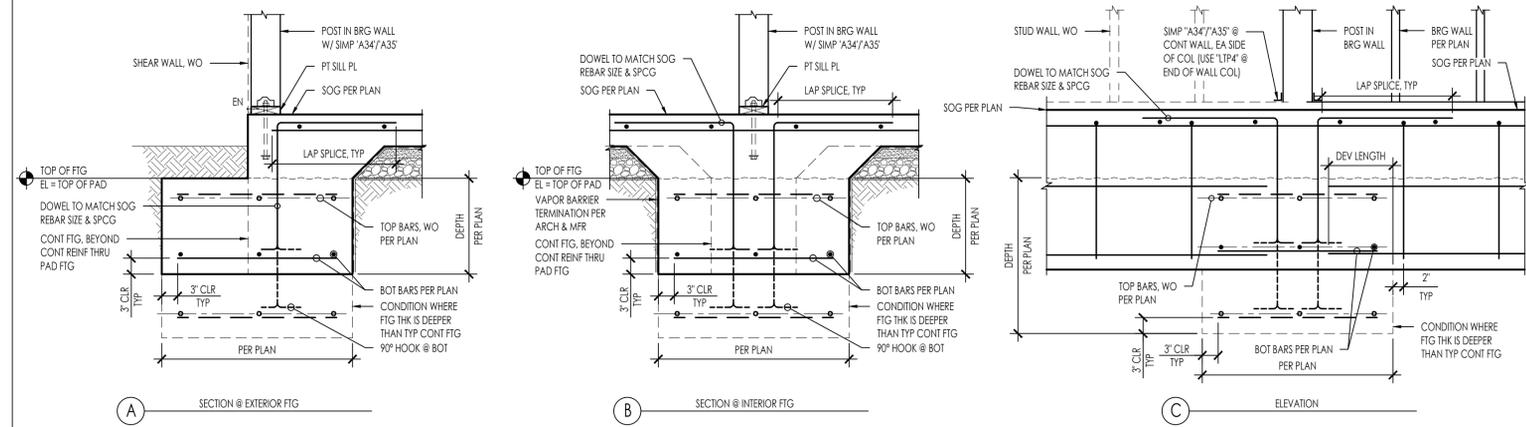
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CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
CONCRETE DETAILS

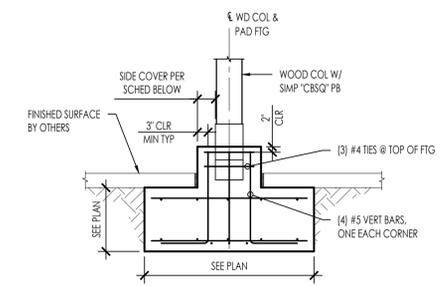
DATE
05/09/2023
SHEET
S1-311



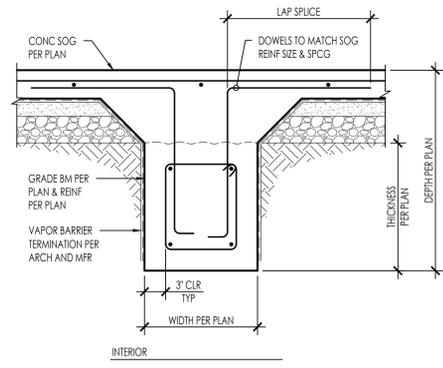
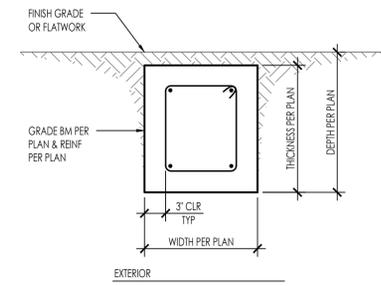
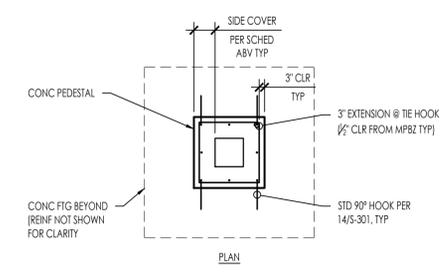
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51	41	SPREAD FOOTING @ BEARING WALL POST <small>2277-01-C101 - S312</small>	3/4" = 1'-0"	11
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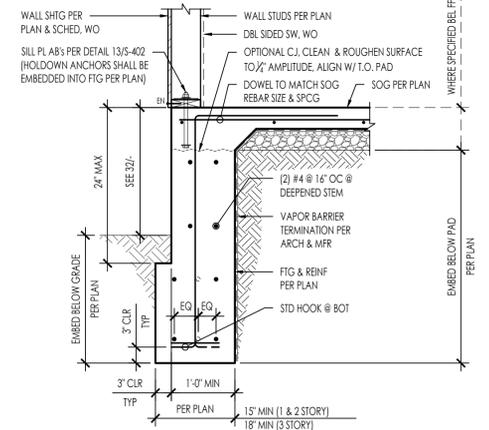
POST SIZE	MIN. SIDE COVER
4x4	0'-3"
6x6	0'-3"
8x8	0'-3"



52	42			32
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53	43	PORCH PAD FOOTING <small>2277-01-C102 - S312 - 23</small>	1/2" = 1'-0"	23
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		GRADE BEAM <small>2277-01-C101 - S312</small>	NTS	13
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54	44			34
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24		DEEPEND EXTERIOR FOOTING <small>2277-01-C101 - S312</small>	3/4" = 1'-0"	14
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CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
CONCRETE DETAILS

DATE
05/09/2023

SHEET
S1-312

\\ccp\m\on-site\2020\2277-01-C101_Carpinteria-Downtown-Design-Overlay-882-Funded-Structural\ConDoc\Sheet\2277-01-C101 - S312.dwg, PLAN 1 - S312, May 09, 2023 2:08pm, Alispaz

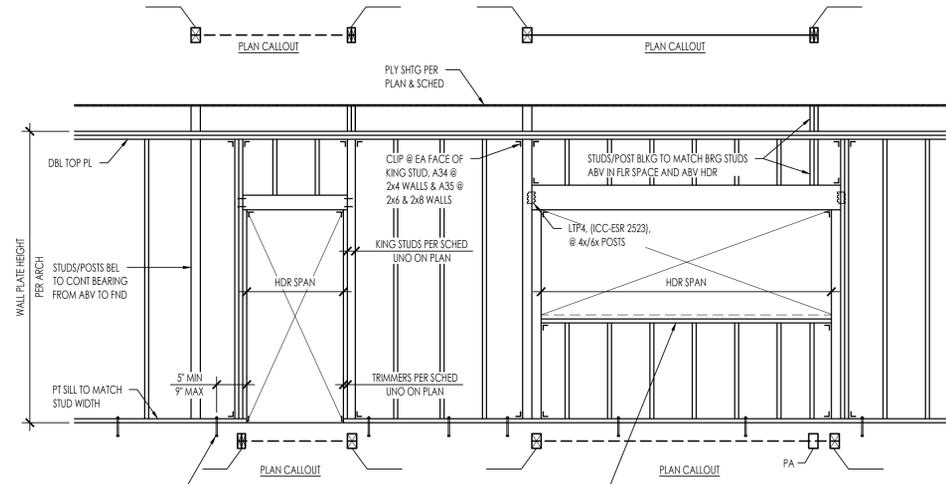


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FASTENING SCHEDULE PER 2022 CBC 2304.10.1		
CONNECTION	FASTENING	LOCATION
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON	EACH END, TOENAIL
2. BLOCKING BETWEEN RAFTERS OR TRUSSES NOT AT THE WALL TO TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON	EACH END, TOENAIL
3. FLAT BLOCKING TO TRUSS AND WEB FILLER	2-16d COMMON	END NAIL
4. CEILING JOIST TO TOP PLATE	1-6d COMMON @ 6' OC	FACE NAIL
5. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS	3-16d COMMON	EACH JOIST, TOENAIL
6. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	3-16d COMMON	FACE NAIL
7. COLLAR TIE TO RAFTER	3-10d COMMON	FACE NAIL
8. RAFTER OR ROOF TRUSS TO PLATE	3-10d COMMON	TOENAIL ^o
9. ROOF RAFTER TO RIDGE VALLEY OR HIP RAFTER; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16d COMMON	END NAIL
10. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS	3-10d COMMON	TOENAIL
11. BUILT-UP HEADER (2" TO 2" HEADER)	1-6d COMMON	1/4" OC EACH EDGE, FACE NAIL
12. CONTINUOUS HEADER TO STUD	4-10d COMMON	TOENAIL
13. TOP PLATE TO TOP PLATE	1-6d COMMON	1/4" OC FACE NAIL
14. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	2-16d COMMON	1/4" OC FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON	TOENAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON	END NAIL
18. JOIST TO SILL, TOP PLATE, OR GIRDER	3-8d COMMON	FACE NAIL
20. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON	TOENAIL
21. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	8d COMMON	6" OC, TOENAIL
22. 2" SUBFLOOR TO JOIST OR GIRDER	2-8d COMMON	FACE NAIL
23. BUILT-UP GIRDER AND BEAMS, 2" LUMBER LAYERS	2-16d COMMON	FACE NAIL
24. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	20d COMMON (4" x 0.192")	32" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDE
26. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON	EACH JOIST OR RAFTER, FACE NAIL
27. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	3-16d COMMON	END NAIL
	2-8d COMMON	EACH END, TOENAIL

NOTES:
 a. THIS NAILING SCHEDULE SHALL ONLY BE USED IF CONDITION IS NOT OTHERWISE DETAILED OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED
 b. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL

1-STORY				
6 INCH WALLS				
OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS
UP TO 3'-0"	6x4	2x	2x6	2x6
3'-0" - 5'-0"	6x6	2x	2x6	2x6
5'-0" - 7'-0"	6x8	(2) 2x	2x6	(2) 2x6



NOTES:
 1. THIS DETAIL APPLIES AT ALL EXT WALLS AND INT LOAD BEARING WALLS AND ALSO APPLIES TO SHEAR WALL FRAMING
 A. FOR SHEAR WALLS SEE 34/S-402 FOR ADD'L REQUIREMENTS
 B. FOR INTERIOR NON-BEARING PARTITIONS SEE DETAIL 45/
 2. HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THIS TYPICAL SCHED/DETAILS
 3. PROVIDE A34 @ 4" WALLS & A35 @ 6" OR GREATER WALLS (ICC-ESR 2333)

3/4" Ø x 12" BOLTS (7" MIN EMBED) W/ STD WASHER @ 48" OC UNLESS TIGHTER SPCG REQD PER SW SCHED (DETAIL 13/S-402)
 (2) BOLTS MIN PER PIECE OF SILL PL
 AT SHEAR WALL CONDITION W/ BLOCK AND STRAP ABOVE AND BELOW OPENINGS, DOUBLE SILL MAY BE REQD

EXTERIOR WALL / INTERIOR WALL BEARING WALL FRAMING

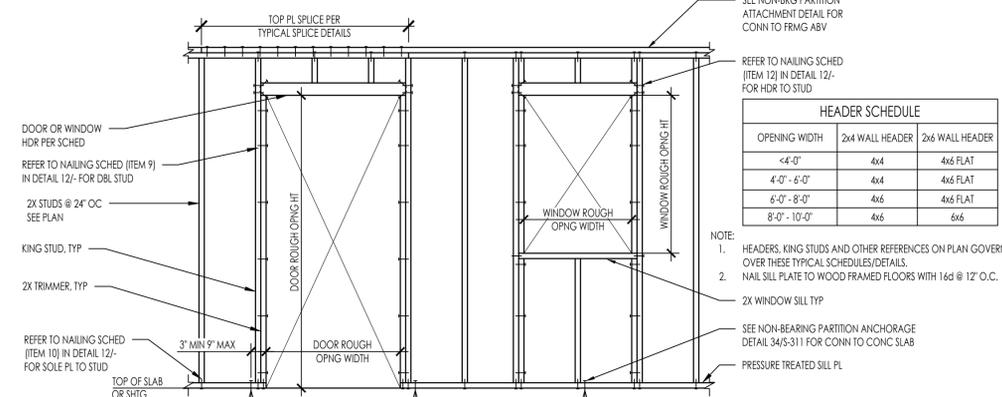
2027-01-C121 - 5401

NTS 32

NAILING SCHEDULE

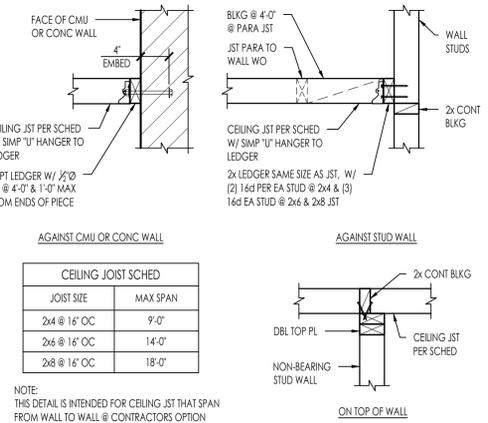
2027-01-C121 - 5401

NTS 12



HEADER SCHEDULE		
OPENING WIDTH	2x4 WALL HEADER	2x6 WALL HEADER
<4'-0"	4x4	4x6 FLAT
4'-0" - 6'-0"	4x4	4x6 FLAT
6'-0" - 8'-0"	4x6	4x6 FLAT
8'-0" - 10'-0"	4x6	4x6

NOTE:
 1. HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THESE TYPICAL SCHEDULES/DETAILS.
 2. NAIL SILL PLATE TO WOOD FRAMED FLOORS WITH 1-6d @ 12" O.C.
 SEE NON-BEARING PARTITION ANCHORAGE DETAIL 34/S-311 FOR CONN TO CONC SLAB
 PRESSURE TREATED SILL PL



CEILING JOIST SCHED	
JOIST SIZE	MAX SPAN
2x4 @ 16" OC	9'-0"
2x6 @ 16" OC	14'-0"
2x8 @ 16" OC	18'-0"

NOTE:
 THIS DETAIL IS INTENDED FOR CEILING JOIST THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION

INTERIOR NON-BEARING PARTITION WALL FRAMING

2027-01-C121 - 5401

NTS 43

CEILING JOIST SCHED & DETAILS

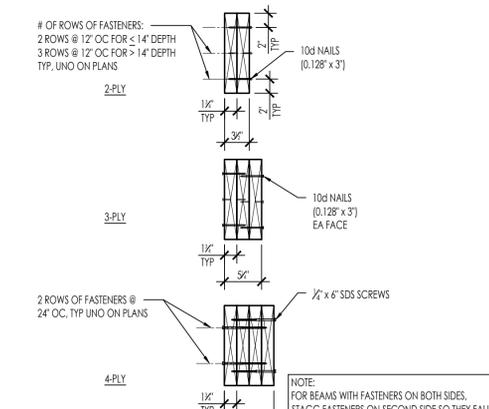
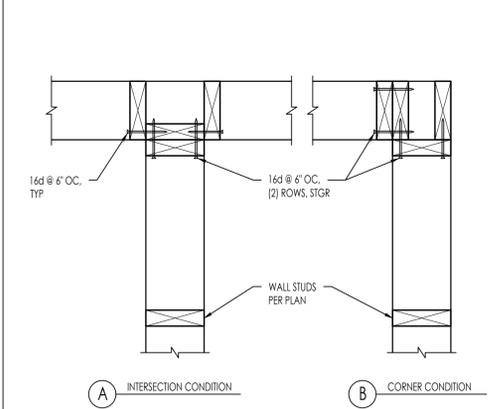
2027-01-C121 - 5401

NTS 33

TYPICAL WOOD STUD INTERSECTIONS

2027-01-C121 - 5401

NTS 23



INTERIOR NON-BEARING PARTITION WALL FRAMING

2027-01-C121 - 5401

54

CEILING JOIST SCHED & DETAILS

2027-01-C121 - 5401

44

TYPICAL WOOD STUD INTERSECTIONS

2027-01-C121 - 5401

34

MULTI-PLY MEMBER CONNECTION

2027-01-C121 - 5401

24

DATE

05/09/2023

SHEET

S1-401

CARPINTERIA ADU PROTOTYPES
 SANTA BARBARA COUNTY, CA
 TYPICAL WOOD DETAILS

\\cnp\vm\on-site\2020\2277-01-C121 - Carpinteria-Downtown-Design-Overlay-882-Funded-Structural\Sheet-Rep\2277-01-C121 - 5401.dwg, PLAN 1 - 5401, May 09, 2023 2:08pm, Al Lopez

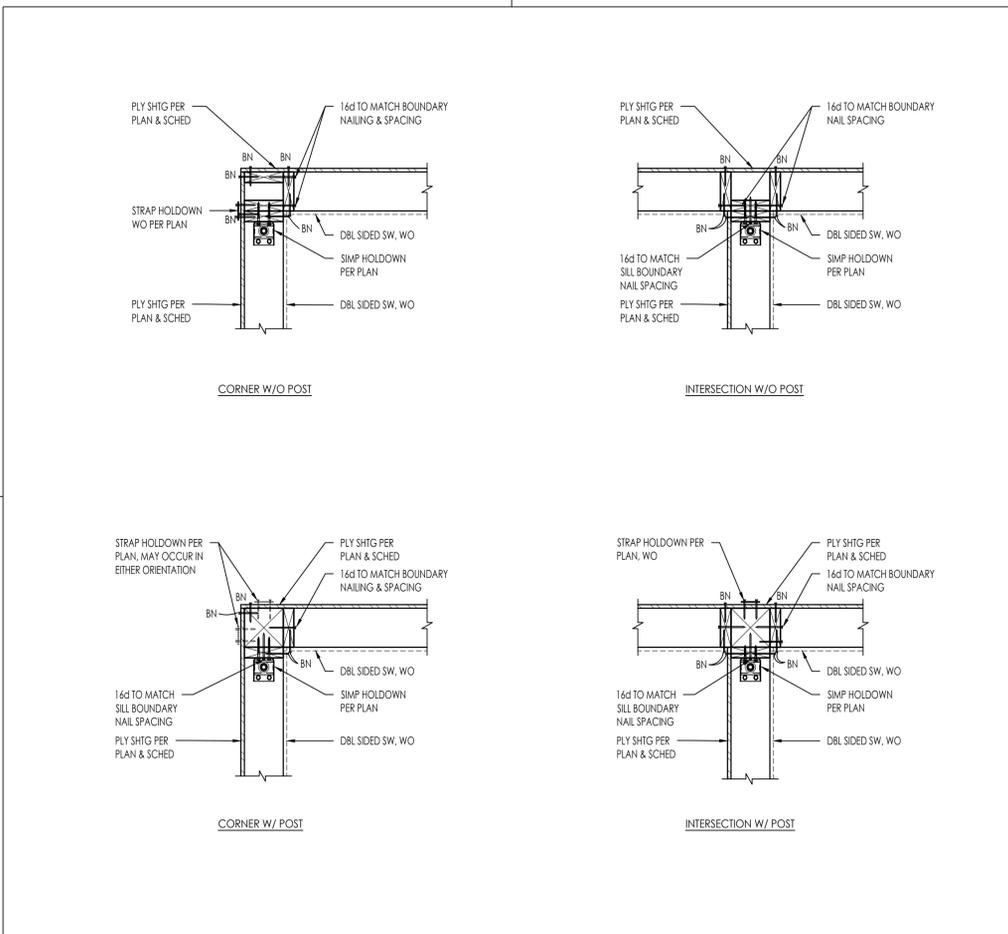


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CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
TYPICAL WOOD DETAILS

DATE
05/09/2023
SHEET

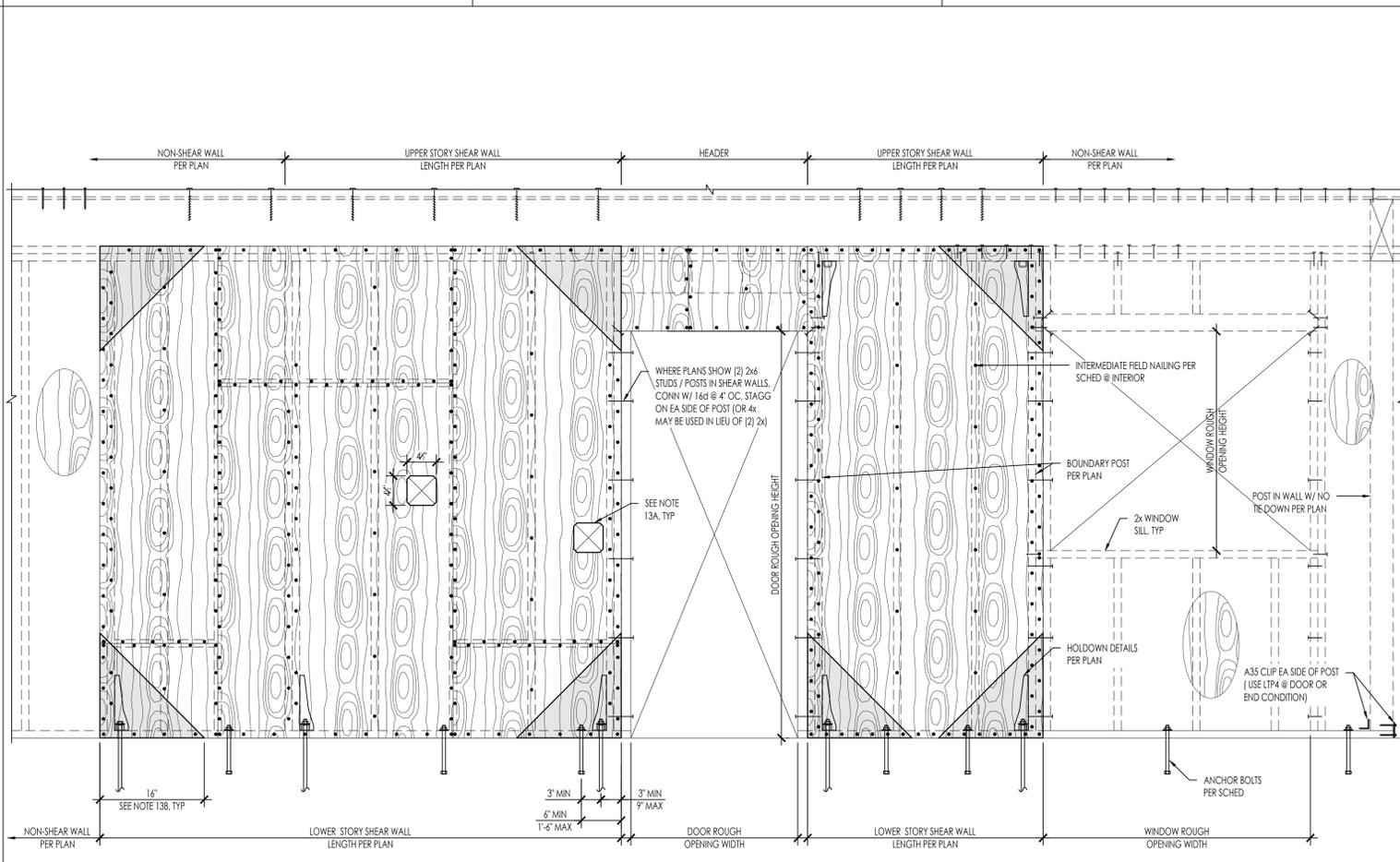
S1-402



42 SHEAR WALL INTERSECTION

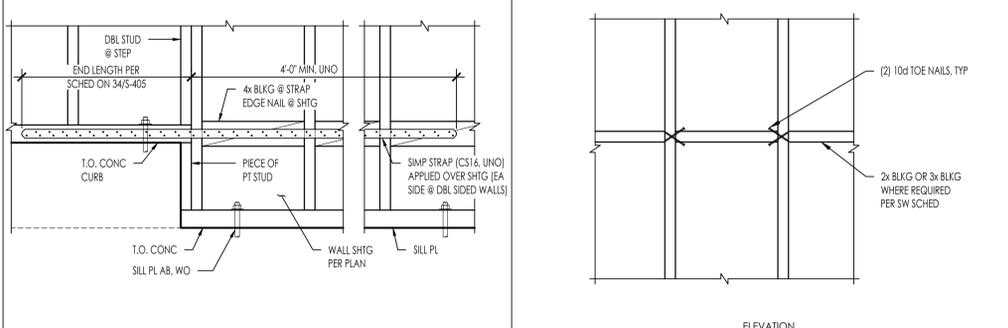
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WALL SYMBOL	STRUCT SHEATHING	FRAMING SIZE	NAILING				SILL NAILING		ANCHOR BOLTING
			(2) 2x STUD	EDGE	INTERMEDIATE SUPPORTS	NAILS /LAG SCREWS	SDS SCREWS OPTION		
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 7' OC	8d @ 6' OC	8d @ 12' OC	16d @ 6' OC	12" OC	24" OC	5/8" DIA @ 48" OC
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 8' OC	10d @ 6' OC	10d @ 12' OC	5/8" LAG SCREWS @ 16" OC	12" OC	16" OC	5/8" DIA @ 48" OC
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 5' OC	10d @ 4' OC	10d @ 12' OC	5/8" LAG SCREWS @ 16" OC	8" OC	12" OC	5/8" DIA @ 32" OC
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 4' OC	10d @ 3' OC	10d @ 12' OC	5/8" LAG SCREWS @ 16" OC	6" OC	8" OC	5/8" DIA @ 32" OC
△	15/32' STRUCT 1 PLYWOOD	2x	10d @ 3' OC	10d @ 2' OC	10d @ 12' OC	5/8" LAG SCREWS @ 8" OC	4" OC	8" OC	5/8" DIA @ 24" OC
△	15/32' STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 5' OC	10d @ 4' OC	10d @ 12' OC	5/8" LAG SCREWS @ 8" OC	(2) @ 8" OC *	6" OC	5/8" DIA @ 16" OC
△	15/32' STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 4' OC	10d @ 3' OC	10d @ 8" OC	5/8" LAG SCREWS @ 8" OC	(2) @ 6" OC *	A34 @ 4" OC *	5/8" DIA @ 16" OC
△	15/32' STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 3' OC	10d @ 2' OC	10d @ 6" OC	5/8" LAG SCREWS @ 6" OC	(2) @ 4" OC *	1T4 @ 4" OC	5/8" DIA @ 8" OC

- NOTES:
- ALL PLYWOOD SHALL BE 5 PLY MINIMUM WITH A SPAN RATING OF 32/16 AND ALL PANEL EDGES SHALL BE BLOCKED. PROVIDE 1/8" GAP AT ALL PANEL JOINTS.
 - 8d NAIL DEFINED AS 0.131" DIAMETER SHANK x 2 1/2" LONG x 0.281" DIAMETER HEAD.
 - 10d NAIL DEFINED AS 0.148" DIAMETER SHANK x 3" LONG x 0.312" DIAMETER HEAD.
 - PROVIDE E.N. AT ALL END STUDS, STUDS/POSTS WITH HOLDOWNS OR TIE DOWN STRAPS, SILL PLATES AND TOP PLATES.
 - WHERE 10d NAILS ARE 3 INCHES ON CENTER OR LESS, NAILS SHALL BE STAGGERED.
 - NAILS SHALL BE 1/2 INCH MINIMUM FROM PLYWOOD PANEL EDGE AND 3/8 INCH MINIMUM FROM CONNECTING MEMBER EDGE WHERE SHEAR EXCEEDS 300 PLF.
 - USE 3x FRAMING AT BOTTOM SILL PLATES, BLOCKING AND ALL STUDS AT ADJACENT PANEL EDGES WHERE SHEAR EXCEEDS 300 PLF. STRUCTURALLY ACCEPTABLE TO USE (2) 2x INSTEAD OF 3x FRAMING AT BOTTOM SILL PLATES.
 - WHERE SILL SHEAR TRANSFER IS THROUGH LAG SCREWS, SILL PLATE SHALL BE A MINIMUM OF 2 1/2" THICK.
 - LAG SCREWS SHALL BE 6 INCHES LONG AND HOLES ARE TO BE PRE-DRILLED AS TO NOT SPLIT BLOCKING/RIM.
 - SEE ELEVATION ABOVE FOR TYPICAL CONSTRUCTION.
 - REFER TO PLATE WASHER DETAIL FOR REQUIREMENTS.
 - LENGTHEN ANCHOR BOLTS AS REQUIRED FOR EMBEDMENT AND SILL PLATE THICKNESS.
 - ORIENTED STRAND BOARD (OSB) MAY BE SUBSTITUTED FOR PLYWOOD NOTED ABOVE PROVIDED IT IS RATED BY APA'S PERFORMANCE STANDARD RATING AND IS OF THE SAME NUMBER OF LAYERS AS PLYWOOD PLY INDICATED.
 - LIMITATIONS OF MECHANICAL PENETRATIONS IN SHEAR WALLS:
 - A. 4 1/2" MAX PENETRATION
 - B. NO CUTS OR HOLES IN SHEATHING WITHIN 16" OF CORNERS. SQUARE PENETRATIONS SHALL RADIUS EDGES. DO NOT OVER CUT HOLE WITH SAW.
 - ASSUMES A 1 1/4" MIN LSL RIM BOARD. FASTENER EDGE DIST IS 5/8" MIN & 6" END DISTANCE MIN. 2" MIN PENETRATION INTO RIM BOARD.
 - WALL W/ DOUBLE SIDED PLYWOOD REQUIRE (2) RIM BOARDS.
 - SIMPSON 1T4* CLIP SHALL BE INSTALLED IN A HORIZONTAL ORIENTATION. IF CLIP IS INSTALLED OVER THE SHEATHING, 0.131" x 2 1/2" NAILS SHALL BE USED.



53 STRAP AT STEP IN SHEAR WALL SILL PLATE

2023-01-C121 - S402

43 TYPICAL BLOCKING DETAIL

2023-01-C121 - S402

44 TYPICAL SHEAR WALL ELEVATION AND SCHEDULE

2023-01-C121 - S402

MARK	# OF BLKG	SIMPSON STRAP	NAILS EA SIDE OF OPENING	STRAP LENGTH (IN)	ALLOWABLE TENSION LOADS (LBS)
▽	1	CS20	(12) 10d x 2 1/2"	32	1,030
▽	1	CS16	(20) 10d x 2 1/2"		1,705
▽	1	CS14	(26) 10d x 2 1/2"	39	2,490
▽	2	CMST16	(50) 10d x 3 1/2"		4,690
▽	2	CMST14	(66) 10d x 2 1/2"	39	6,475
▽	2	CMST12	(86) 10d x 2 1/2"		9,215

NOTES:
1. 2 BAYS OR 32" MIN STRAP LENGTH
2. BOUNDARY AND EDGE NAILING FROM PLYWOOD TO STUDS / FRAMING SHALL OCCUR ABOVE AND BELOW OPENINGS AT THIS CONDITION
3. SEE TYPICAL SHEAR WALL ELEVATION FOR BALANCE OF INFO NOT SHOWN

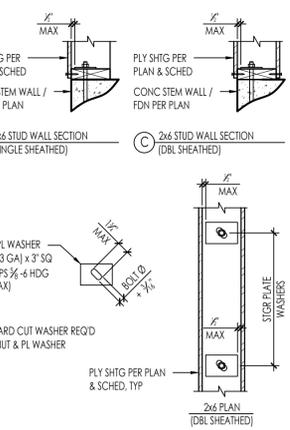
44 FORCE TRANSFER AROUND OPENINGS

2023-01-C121 - S402

NTS

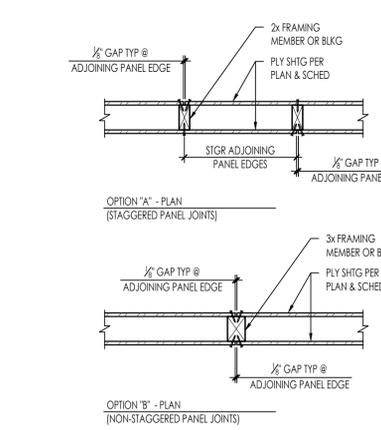
45 PLATE WASHER DETAIL

2023-01-C121 - S402



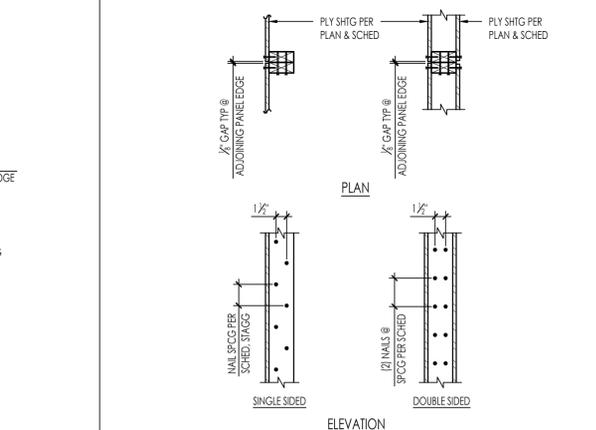
45 PLATE WASHER DETAIL

2023-01-C121 - S402



46 DOUBLE SIDED SHEAR WALL

2023-01-C121 - S402



47 2x STUD NAILING @ ADJOINING PANEL EDGES

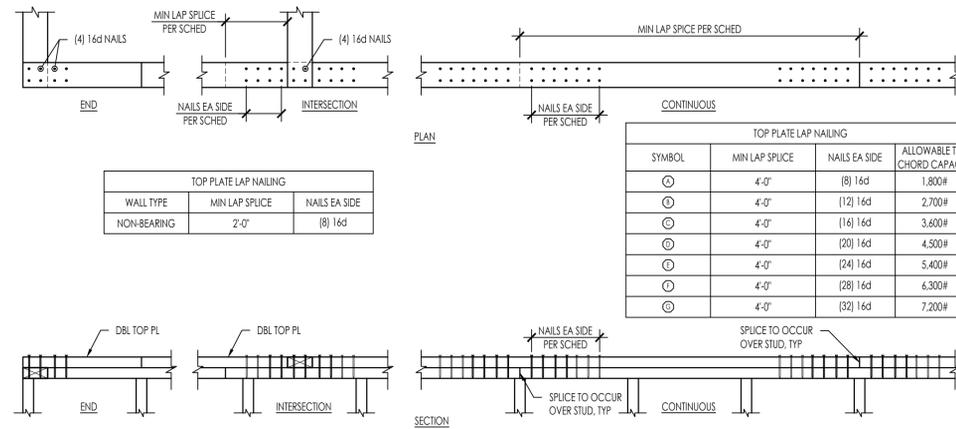
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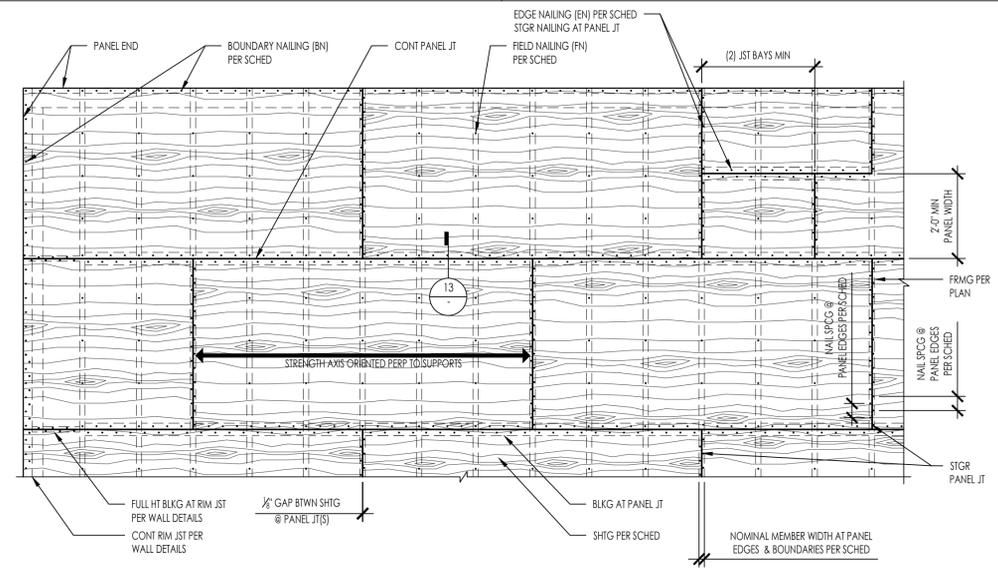


51 DBL TOP PLATE SPLICE NAILING

2277-01-C101-1403

32

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TYPE	LOCATION	SHEATHING THICKNESS	SHEATHING GRADE	SPAN RATING	BLOCKING	NAILS	BOUNDARY NAILING (BN)	EDGE NAILING AT CONT. PANEL EDGES (EN)	EDGE NAILING AT OTHER PANEL EDGES (EN)	FIELD NAILING (FN)	PANEL EDGE SUPPORT OR NOMINAL MEMBER WIDTH AT PANEL EDGES	LINES OF FASTENERS
A	ROOF	SEE NOTE 5	SHEATHING	32 / 16	NO	10d	6	-	6	12	H-CLIPS	1

- NOTES:
- DIAPHRAGM SHALL BE GLUED TO FLOOR FRAMING PRIOR TO NAILING, REFER TO PROJECT GENERAL NOTES.
 - MINIMUM EDGE DISTANCE FOR NAILS SHALL BE 1/2" FROM SHEATHING EDGE AND 3/8" FROM LUMBER EDGE.
 - NAILS SHALL BE DRIVEN TIGHT TO TOP OF PLYWOOD SURFACE AND SHALL NOT PENETRATE THE TOP OF PLYWOOD MORE THAN COMMONLY EXPECTED WITH HAMMER DRIVEN NAILS.
 - WHERE H-CLIPS ARE SPECIFIED, THEY SHOULD BE INSTALLED AS FOLLOWS:
 - ONE H-CLIP SHALL BE PLACED BETWEEN ABUTTING PANELS AT A LOCATION MIDWAY BETWEEN EACH PAIR OF TRUSSES, RAFTERS OR JOISTS. HOWEVER, (2) H-CLIPS ARE REQUIRED BETWEEN SUPPORTS WHEN SPACED 48 INCHES ON CENTER.
 - USE THE SAME SIZE PANEL EDGE CLIP AS THE PANEL THICKNESS. H-CLIPS MUST FIT SNUGLY.
 - ABUTTING WOOD STRUCTURAL PANELS BE FITTED AS CLOSELY AS CLIPS PERMIT. OCCASIONAL MISFIT OF ABUTTING SHEETS MAY BE TOLERATED PROVIDING THAT GAPS DO NOT EXCEED MAXIMUM OPENING OF 1/8".
 - ROOF SHEATHING THICKNESS SHALL BE INSTALLED AS FOLLOWS:
 - 1/2" @ SINGLE PLY OR ASPHALT SHINGLES
 - 3/8" @ TILE
 - 3/4" @ TILE WITH MORTAR
 - STRUCTURALLY ACCEPTABLE TO USE "SHEATHING" SHEATHING GRADE @ FLOOR LOCATIONS WITHOUT GYPCRETE TOPPING

52

42

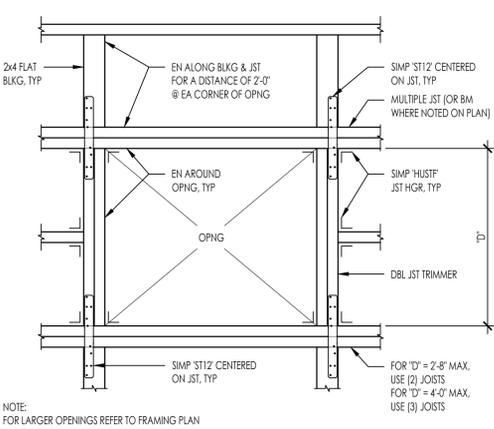
32

PLYWOOD DIAPHRAGM SHEATHING

2277-01-C101-1403

12

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NOTE: FOR LARGER OPENINGS REFER TO FRAMING PLAN

53

43

33

OPENING AT FRAMING

2277-01-C101-1403

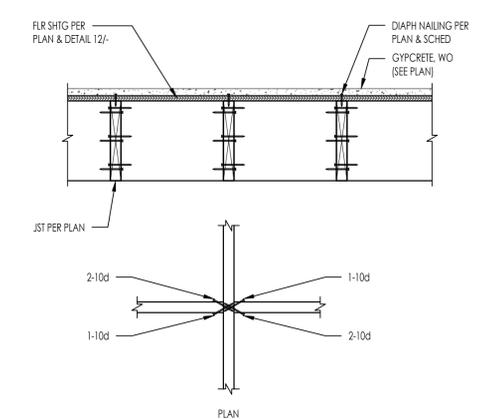
23

DIAPHRAGM PANEL JOINTS

2277-01-C101-1403

13

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24

TYP JOIST BLOCKING

2277-01-C101-1403

14

NTS

CARPINTERIA ADU PROTOTYPES

SANTA BARBARA COUNTY, CA

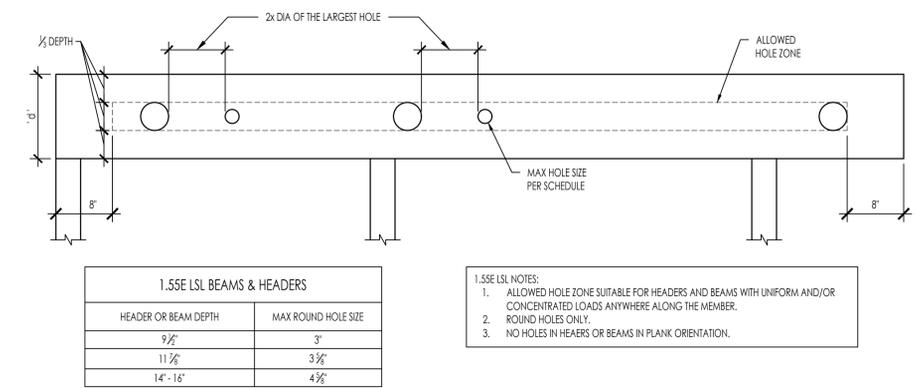
TYPICAL WOOD DETAILS

DATE
05/09/2023

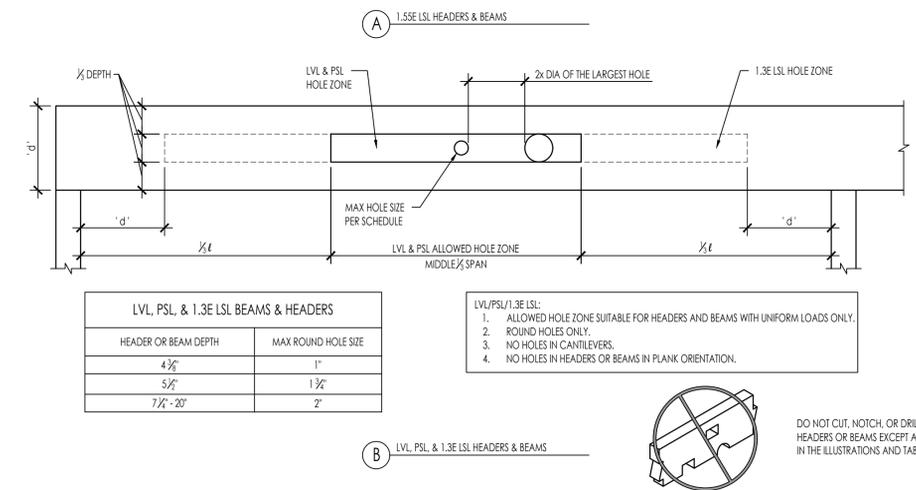
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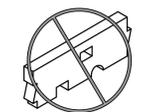
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- 1.55E LSL NOTES:
- ALLOWED HOLE ZONE SUITABLE FOR HEADERS AND BEAMS WITH UNIFORM AND/OR CONCENTRATED LOADS ANYWHERE ALONG THE MEMBER.
 - ROUND HOLES ONLY.
 - NO HOLES IN HEADERS OR BEAMS IN PLANK ORIENTATION.



- LVL/PSL/1.3E LSL:
- ALLOWED HOLE ZONE SUITABLE FOR HEADERS AND BEAMS WITH UNIFORM LOADS ONLY.
 - ROUND HOLES ONLY.
 - NO HOLES IN CANTILEVERS.
 - NO HOLES IN HEADERS OR BEAMS IN PLANK ORIENTATION.



DO NOT CUT, NOTCH, OR DRILL HOLES IN HEADERS OR BEAMS EXCEPT AS INDICATED IN THE ILLUSTRATIONS AND TABLES

51

41

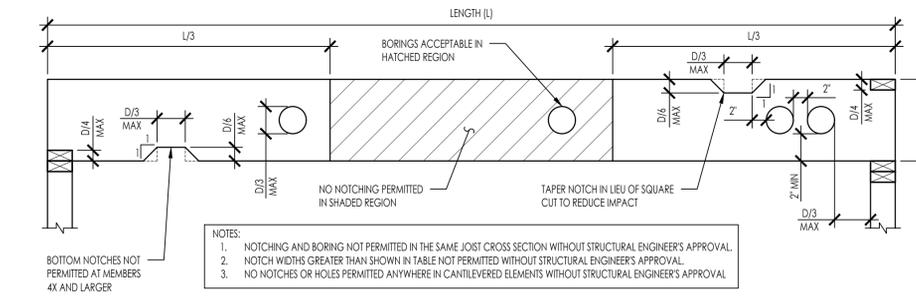
31

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42

32

ALLOWABLE HOLES THRU ENGINEERED LUMBER HEADERS & BEAMS



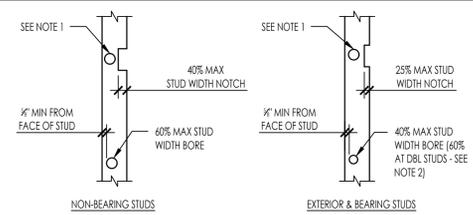
JOIST SIZE	MAX HOLE	MAX NOTCH DEPTH	MAX END NOTCH	MAX NOTCH LENGTH
2x4	NONE	NONE	NONE	NONE
2x6	1 1/2"	3/4"	1 3/8"	1 1/2"
2x8	2 3/8"	1 1/2"	1 3/8"	2 3/8"
2x10	3"	1 1/2"	2 3/8"	3"
2x12	3 3/4"	1 1/2"	2 3/8"	3 3/4"

53

43

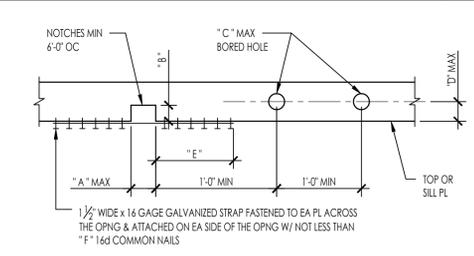
33

SAWN LUMBER AND RAFTER JOIST NOTCHING AND BORING LIMITATIONS



STUD SIZE (IN)	APPLICATION	MAX HOLE DIAMETER (IN)	MAX NOTCH DEPTH (IN)
2x4	NON-BEARING	2 3/8"	1 3/8"
	EXTERIOR/BEARING	1 3/8"	7/8"
2x6	NON-BEARING	3 1/4"	2 3/8"
	EXTERIOR/BEARING	2 3/8"	1 3/8"

- NOTES:
- NOTCHING AND BORING NOT PERMITTED IN THE SAME STUD SECTION.
 - NO MORE THAN 2 SUCCESSIVE DBL. STUDS ARE PERMITTED TO HAVE 60% MAX BORED HOLES.



TOP PL OR SILL PL	A	B	C	D	E	F
2x4	3/8"	1/2"	1/4"	1/2"	3/4"	6
2x6	1/2"	3/4"	1/4"	3/8"	1/2"	9
2x8	3/8"	3"	3/4"	3/8"	1 1/4"	12

54

44

34

TYP WALL NOTCH AND BORING LIMITATIONS

TOP PL AND SILL NOTCH AND BORING LIMITATIONS

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CARPINTERIA ADU PROTOTYPES
 SANTA BARBARA COUNTY, CA
 TYPICAL WOOD DETAILS

DATE
05/09/2023

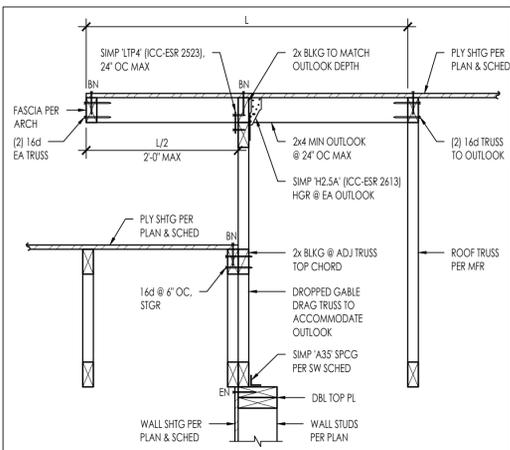
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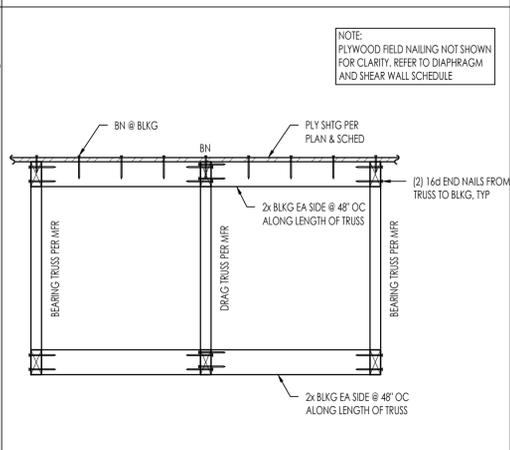


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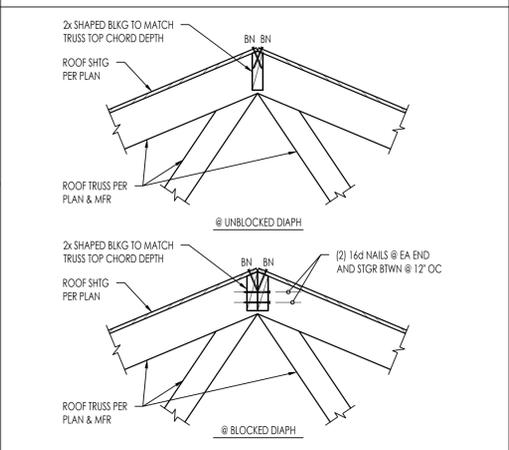
CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
ROOF FRAMING DETAILS



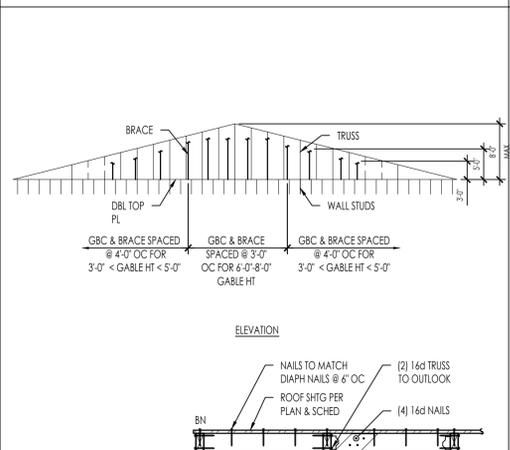
DIAPH TRANSITION W/ OVERHANG
2277-01-C101 - 5401 1" = 1'-0" 51



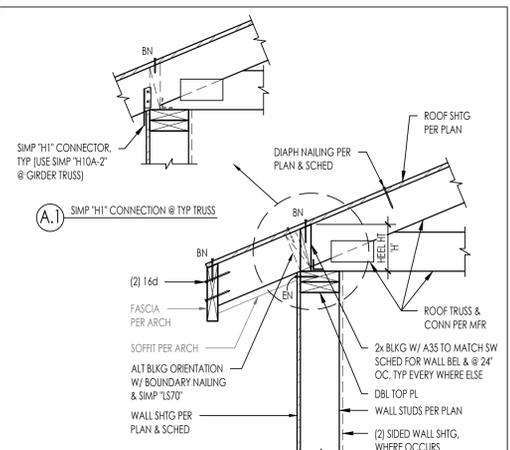
INTERIOR DRAG TRUSS
2277-01-C101 - 5401 1" = 1'-0" 41



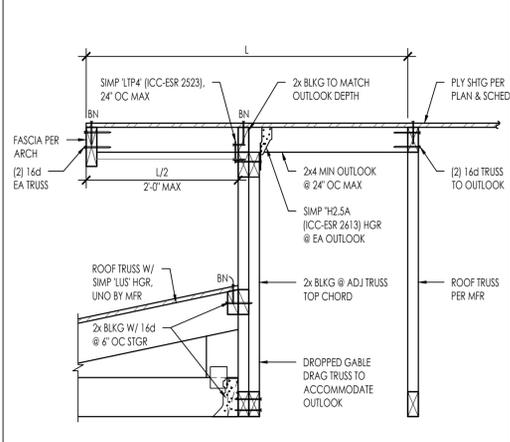
SHEATHING OVER ROOF RIDGE
2277-01-C101 - 5401 1" = 1'-0" 32



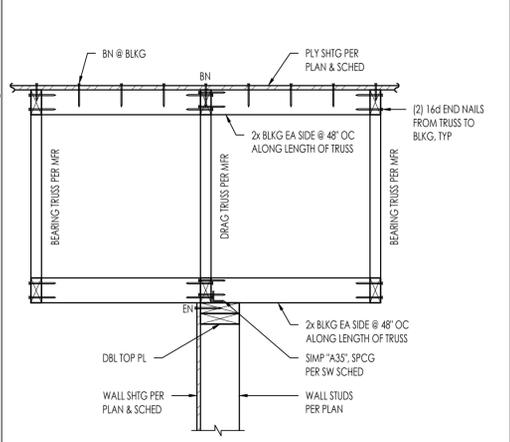
SHEATHING OVER ROOF RIDGE
2277-01-C101 - 5401 1" = 1'-0" 32



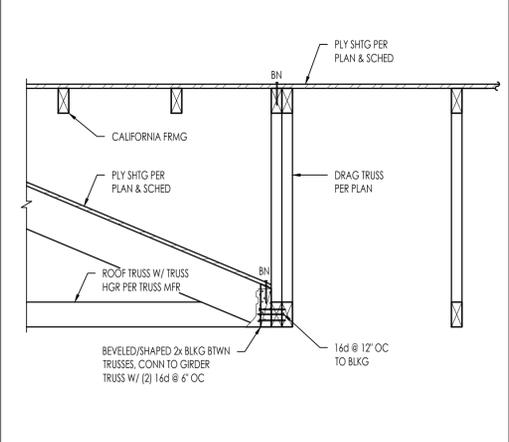
GABLE END TRUSS
2277-01-C101 - 5401 NTS 23



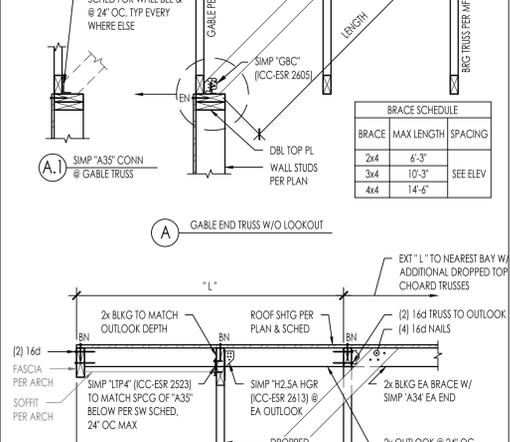
DIAPH TRANSITION W/ OVERHANG
2277-01-C101 - 5401 1" = 1'-0" 52



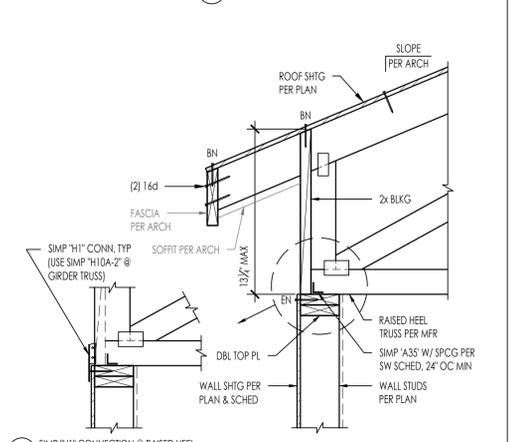
INTERIOR SHEAR WALL (ROOF TRUSS PARALLEL)
2277-01-C101 - 5401 1" = 1'-0" 42



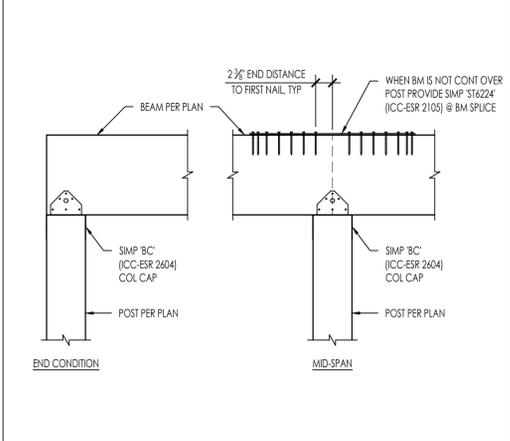
TRUSS TO GIRDER TRUSS
2277-01-C101 - 5401 1" = 1'-0" 32



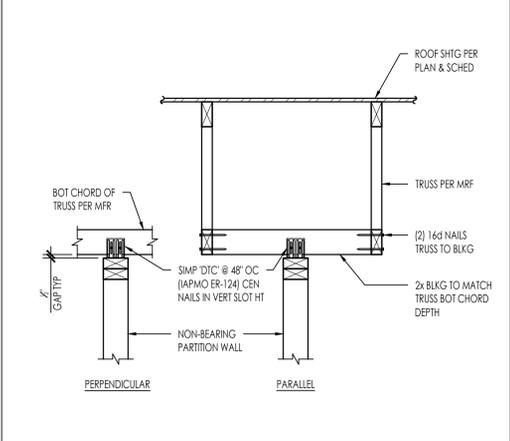
TRUSS TO GIRDER TRUSS
2277-01-C101 - 5401 1" = 1'-0" 32



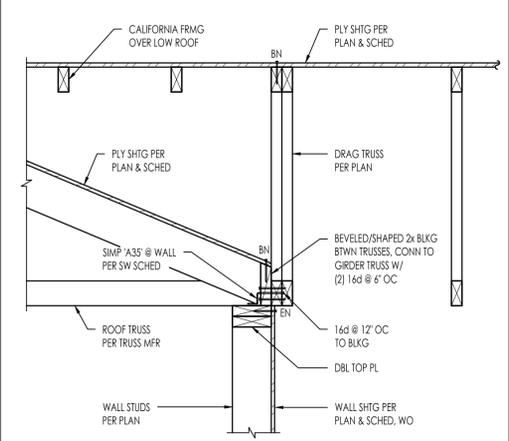
GABLE END TRUSS
2277-01-C101 - 5401 NTS 23



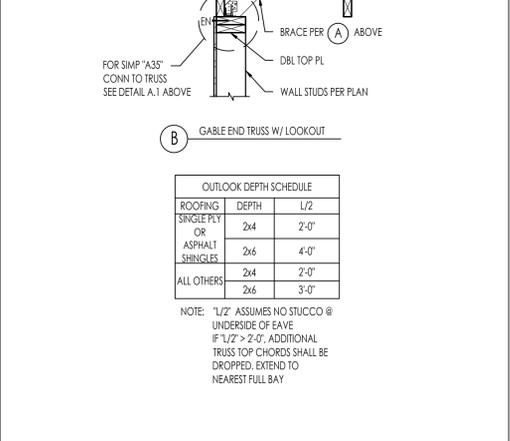
BEAM TO POST CONNECTION
2277-01-C101 - 5401 1" = 1'-0" 53



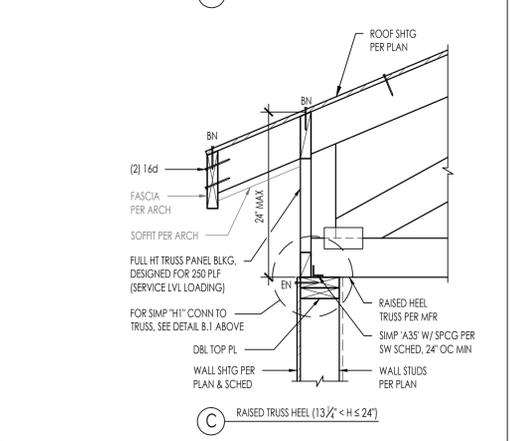
TRUSS OVER NON-BEARING PARTITION
2277-01-C101 - 5401 1" = 1'-0" 43



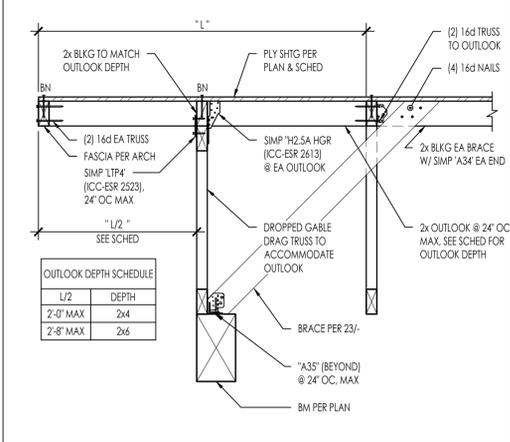
TRUSS TO GIRDER TRUSS W/ WALL BELOW
2277-01-C101 - 5401 1" = 1'-0" 33



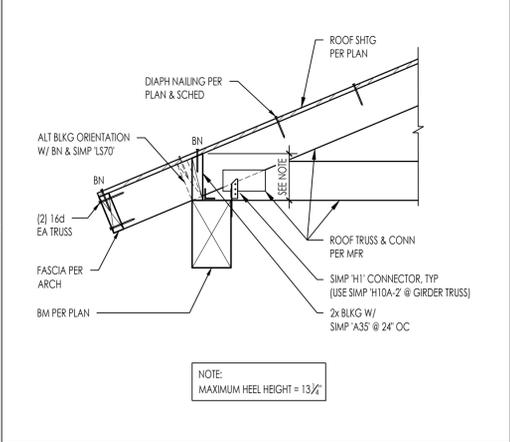
GABLE END TRUSS
2277-01-C101 - 5401 NTS 23



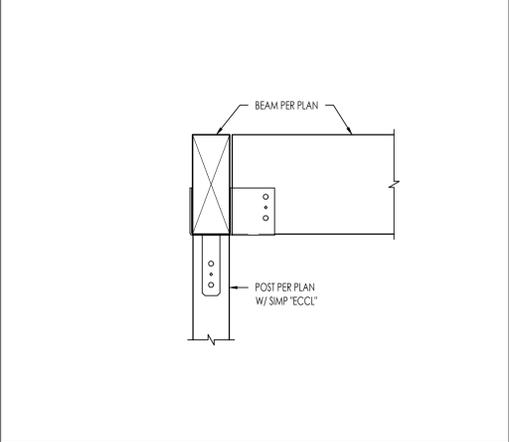
ROOF TRUSS PERP TO EXTERIOR WALL
2277-01-C101 - 5401 NTS 13



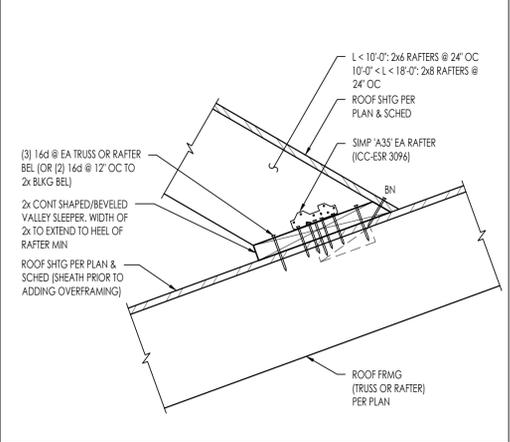
GABLE END TRUSS W/ LOOKOUT @ BEAM
2277-01-C101 - 5401 1" = 1'-0" 54



ROOF TRUSS PERP TO BEAM
2277-01-C101 - 5401 1" = 1'-0" 44



POST TO BEAM CONNECTION W/ BOLTS
2277-01-C101 - 5401 NTS 34



CALIFORNIA FRAMING SLEEPER
2277-01-C101 - 5401 NTS 24



ROOF TRUSS PERP TO EXTERIOR WALL
2277-01-C101 - 5401 NTS 13

BUILDING ENERGY ANALYSIS REPORT

PROJECT:
Carpenteria ADU (Plan 1)
Carpenteria, CA

Project Designer:
RRM Design Group
3765 South Higuera St Ste 102
San Luis Obispo, CA 93401

Report Prepared by:
Timothy Carstairs, CEA, HERS, GPR
Carstairs Energy Inc.
2238 Bayview Heights Drive, Suite E
Los Osos, CA 93402
805-904-9048



Job Number:
23-011314

Date:
1/17/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards. This program developed by EnergySoft Software - www.energysoft.com.

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Form RMS-1 Residential Measures Summary 15
Form MF-1R Mandatory Measures Summary 16
Room Load Summary 21

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Carpenteria ADU (Plan 1)
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-01-13T11:55:49-08:00
Input File Name: Carpenteria ADU (Plan 1).ribd22x

(Page 1 of 12)

GENERAL INFORMATION			
01	Project Name	Carpenteria ADU (Plan 1)	
02	Run Title	Title 24 Analysis	
03	Project Location		
04	City	Carpenteria	05 Standards Version
06	Zip code		07 Software Version
08	Climate Zone	6	09 Front Orientation (deg/ Cardinal)
10	Building Type	Single family	11 Number of Dwelling Units
12	Project Scope	Newly Constructed	13 Number of Bedrooms
14	Addition Cond. Floor Area (ft ²)	0	15 Number of Stories
16	Existing Cond. Floor Area (ft ²)	n/a	17 Fenestration Average U-factor
18	Total Cond. Floor Area (ft ²)	400	19 Glazing Percentage (%)
20	ADU Bedroom Count	n/a	

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

Registration Number: 223-P01006435A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-02-08 08:17:52
Report Version: 2022.0.000
Schema Version: rev 20220901

HERS Provider: CaCERTS, Inc.
Report Generated: 2023-01-13 11:56:43

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	30.5	30.7	32.3			
Proposed Design						
North Facing	28.7	22.3	28.2	1.8	8.4	4.1
East Facing	28.8	22.9	28.5	1.7	7.8	3.8
South Facing	28.7	22.6	28.3	1.8	8.1	4
West Facing	28.9	23.1	28.5	1.6	7.6	3.8
RESULT: PASS						

¹Efficiency EDR includes improvements like a better building envelope and more efficient equipment
²Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries
³Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

- Standard Design PV Capacity: 1.55 kWdc
- Proposed PV Capacity Scaling: North (1.55 kWdc) East (1.55 kWdc) South (1.55 kWdc) West (1.55 kWdc)

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	ENERGY USE INTENSITY			
	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage
North Facing				
Gross EU ¹	35.59	33.05	2.54	7.14
Net EU ²	13.26	10.71	2.55	19.23
East Facing				
Gross EU ¹	35.59	33.23	2.36	6.63
Net EU ²	13.26	10.9	2.36	17.8
South Facing				
Gross EU ¹	35.59	33.1	2.49	7
Net EU ²	13.26	10.76	2.5	18.85
West Facing				
Gross EU ¹	35.59	33.24	2.35	6.6
Net EU ²	13.26	10.91	2.35	17.72

Notes
1. Gross EU¹ is Energy Use Total (not including PV) / Total Building Area.
2. Net EU² is Energy Use Total (including PV) / Total Building Area.

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ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDU/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDU/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.02	0.11	0.68	5.16	-0.66	-5.05
Space Cooling	1.31	33.46	0.47	15.45	0.84	18.01
IAQ Ventilation	0.52	5.55	0.52	5.55	0	0
Water Heating	4.02	45.11	3.02	35.05	1	10.06
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	5.87	84.23	4.69	61.21	1.18	23.02
Space Heating	0.02	0.11	0.66	5.02	-0.64	-4.91
Space Cooling	1.31	33.46	0.56	17.32	0.75	16.14
IAQ Ventilation	0.52	5.55	0.52	5.55	0	0
Water Heating	4.02	45.11	3.01	34.97	1.01	10.14
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	5.87	84.23	4.75	62.86	1.12	21.37

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REQUIRED PV SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff (%)	Annual Solar Access (%)
1.55	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- Ceiling has high level of insulation
- Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix 8, and RA3)
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater, specific brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

- Indoor air quality ventilation
- Kitchen range hood
- Verified Refrigerant Charge
- Airflow in habitable rooms (SC3.1.4.1.7)
- Verified heat pump rated heating capacity
- Wall-mounted thermostat in zones greater than 150 ft² (SC3.4.5)
- Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)

BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Carpenteria ADU (Plan 1)	400	1	1	1	0	1

Registration Number: 223-P01006435A-000-000-0000000-0000
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ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status
Living Area	Conditioned	HVAC System1	400	8	DHW Sys 1	New

OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)	Tilt (deg)
Front Wall	Living Area	R-21 Wall	0	Front	160	40	90
Left Wall	Living Area	R-21 Wall	90	Left	160	16	90
Rear Wall	Living Area	R-21 Wall	180	Back	160	20	90
Right Wall	Living Area	R-21 Wall	270	Right	160	9	90
Roof	Living Area	R-38 Roof Attic	n/a	n/a	400	n/a	n/a

ATTIC							
01	02	03	04	05	06	07	08
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof
Attic Living Area	Attic Roof/Living Area	Ventilated	4	0.1	0.85	Yes	No

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
1	Window	Front Wall	Front	0			1	20	0.3	NFRC	0.35	NFRC	Bug Screen
2	Window	Left Wall	Left	90			1	8	0.3	NFRC	0.35	NFRC	Bug Screen
3	Window	Left Wall	Left	90			1	8	0.3	NFRC	0.35	NFRC	Bug Screen

Registration Number: 223-P01006435A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance

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CARPINTERIA ADU PROTOTYPES
SANTA BARBARA COUNTY, CA
CERTIFICATE OF COMPLIANCE - PLAN 1

DATE
02/18/23

SHEET

T24-101



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01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
4	Window	Rear Wall	Back	180			1	20	0.3	NFRC	0.35	NFRC	Bug Screen
5	Window	Right Wall	Right	270			1	9	0.3	NFRC	0.35	NFRC	Bug Screen

01	02	03	04
Name	Side of Building	Area (ft ²)	U-factor
Door 10	Front Wall	20	0.2

01	02	03	04	05	06	07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab	Living Area	400	80	none	0	80%	No

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-21 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.069	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Exterior Finish: 3 Coat Stucco
Attic Roof/Living Area	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/Sheathing/Decking Cavity / Frame: no insul. / 2x4

Registration Number: 223-P01006435A-000-000-000000-0000 HERS Provider: CaCERTS Inc.
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01	02	03	04	05	06	07	08	09	10
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Units in Conditioned Space	Wall Mount Thermostat	Air Filter Sizing & Pressure Drop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RAS 3 and SC3.3.3.4.1	Certified non-continuous Fan	Indoor Fan not Running Continuously
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	Status
Sfam IAQVentRpt	27	0.35	Exhaust	No	n/a	No	Yes	



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01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-38 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 Insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board

01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Not Required	Not Required	N/A	n/a	n/a

01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (s)
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)

01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1	40	Rheem	RheemHPLD401RH	Living Area	Living Area	Living Area

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Carpenteria ADU (Plan 1) Calculation Date/Time: 2023-01-13T11:55:49-08:00 (Page 12 of 12)
 Calculation Description: Title 24 Analysis Input File Name: Carpenteria ADU (Plan 1).ribd22x

01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Efficiency Type	HSPF / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	HSPF	8.8	12000	11400	EERSEER	15	12.2	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I, I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Timothy Carstairs
 Company: Carstairs Energy Inc.
 Address: 2238 Bayview Heights Drive, Suite E
 City/State/Zip: Los Osos, CA 93402
 Signature Date: 2023-01-17 09:42:44
 CEAA/HERS Certification Identification (if applicable): r160610042
 Phone: 805-904-9048

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 Responsible Designer Name: Randy Russon
 Company: RRM Design Group
 Address: 3765 S. Higuera Street, Suite 102
 City/State/Zip: San Luis Obispo, CA 94301
 Signature Date: 2023-02-06 08:17:52
 License: na
 Phone: 805-543-1794



Digitally signed by CaCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

Registration Number: 223-P01006435A-000-000-000000-0000 HERS Provider: CaCERTS Inc.
 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-01-13 11:56:43
 Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Carpenteria ADU (Plan 1) Calculation Date/Time: 2023-01-13T11:55:49-08:00 (Page 10 of 12)
 Calculation Description: Title 24 Analysis Input File Name: Carpenteria ADU (Plan 1).ribd22x

01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
HVAC System 1	Heat pump heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a	Setback

01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Efficiency Type	HSPF / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	HSPF	8.8	12000	11400	EERSEER	15	12.2	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

Registration Number: 223-P01006435A-000-000-000000-0000 HERS Provider: CaCERTS Inc.
 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-01-13 11:56:43
 Schema Version: rev 20220901

CARPINTERIA ADU PROTOTYPES
 SANTA BARBARA COUNTY, CA
CERTIFICATE OF COMPLIANCE - PLAN 1

DATE
 02/18/23
 SHEET
T24-102

